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# NUMBERS & ODDITIES #
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[- N&O #06 -]

Hello spooks hunters. First of all, I have sad news: Guy has left us. Lack of feedback is the main reason. I said it a number of times before, we CANNOT put N&O together without your help. We really need your input, no matter what, logs, schedules, info, etc.

Than the good news. Thanks to FAS we have a real nice agency profile this month. The 'AGENCY PROFILE' series is new and starts this month. I intend to include a number of profiles from now on.

As a special surprise I have the location of a number of Numbers Transmission Sites for you. I have to thank Rimantas Pleikys and also other sources -who prefer to remain anonymous- for all their help. Note that all stations were df'ed more than once by professionals!

Backward Music Stations : location of the transmitters of the transmissions on 4706, 5178, 6695, 6753 kHz and probably also other frequencies is Palermo, Sicily, Italy. As far as I know it is a NATO communications device. I don't know what it exactly does, but when you listen very carefully, you can often hear traces of voice and rtty signals.

Lincolnshire Poacher	: Cyprus
Cherry Ripe	: Guam
M18	: Ust'Kamenogorsk, Kazakhstan
XPH	: west of Smolensk, Russia
M1	: Kaliningrad, Russia
M12	: Murom, Russia
The Buzzer (4625 kHz)	: between Kholm (NW of Moscow) and Moscow
Nancy Adam Susan	: near Alexandria, Egypt. Several hundreds df's were conducted. The df's pinpoint the station on the coast near Alexandria or maybe even offshore just off the Egypt coast
E10	: Tel Aviv (other locations in the past included Eilat and an offshore spot NW of Tel Aviv)
M51	: just north of Paris

M21 : various locations in European Russia
M63 : various locations in Roumania

* ENIGMA CONTROL LIST - UPDATE *

As you know, in N&O we use the designators assigned by 'ENIGMA' to the various numbers stations. I received the following update from Mike of the ENIGMA group. As the new list is not ready yet, we only publish the updated info. When the new Control List is ready to roll, it will be published here again.

Note that M57-M62 and M66 are reserved and are subject to re-appraisal. The deleted stations have been found to be variants of stations already included in the list and will appear on the new issue of the Control List with their primary station, the deleted numbers will probably NOT be reused.

E08	Deleted
E22	Arabic Man 2L/F (FD7,FD9)
S22	Deleted
S24	Deleted
S27	Czech Lady II, M1C variant
S28	Buzzer, formerly XB
V03	Deleted
V04	Deleted
V11	Deleted
M09	Deleted
M11	Deleted
M30	Deleted
M35-38	Deleted
M53	747.3F ends "= = AR AR VA VA"
M54	V89T, only null format known
M55	3F (x6) 000 000 long zero, null format only
M56	5F long zero
M57-62 & M66	Reserved, subject to re-appraisal
M67	ends 0000, possibly Turkish
M67A	variant, 3F 2F 7777
XB	See S28
XX	Pip, 3757 or 5450 kHz
XXX	Fast CW pips 3595 kHz

* CUBAN SPY RING RELATIONS??? *

The following is a snippet from a article in the Miami Herald from a couple of weeks ago:

'After nearly four decades of Cold War with Cuba, the FBI said Monday that it broke up the biggest spy ring in years from the communist island, alleging that a dozen operatives sought to infiltrate U.S. military bases in South Florida and sow discord among exile groups in Miami.'

Could this be the reason of the cut-back of Spanish and Cuban CW numbers transmissions?? About a week after the arrests Andy Bell sent us a note that the S7 Russian Man transmissions starting at 0500 UTC have been transmitted daily for at least a week. It sent the same message day after day. Normally, this station transmits on two days per week as does its sister station V7. Hence, the extra transmissions started just after the arrests. COINCIDENCE???

The frequencies used were: 5937 kHz at 0500z; 7737 kHz at 0520z; 9337 kHz at 0540z.

The following message has been repeated every day:

Frequency ID = 973
Call = 1
Message ID = 168
GC = 111
Followed by 111 5fg.

Andy sez 'I'm wondering if this daily duplicate message is a test transmission, training transmission or maybe the intended recipient is just not responding?'

* AGENCY PROFILE: ISRAELI INTELLIGENCE *

Israeli intelligence agencies are/were very active on HF. Most of the RTTY stations however are gone now and have probably have moved to satellite. The voice numbers station (E10) is still there and is very active.

Although I always call them 'Mossad stations', it is not clear which agency/agencies is/are actually transmitting these messages. The two major candidates are Mossad and Shin Beth, but also the military Aman is a possibility. The RTTY stations were almost certain Mossad stations.

In this edition of the 'Agency Profile' series I'd like to introduce you to the various Israeli intelligence agencies and the numbers station(s) related to these agencies: E10.

Official name: Ha-Mossad le-Modiin ule-Tafkidim Meyuhadim

Popular name : Mossad
Translation : Institute for Intelligence and Special Tasks

Official name: Sherut ha-Bitachon ha-Klali
Popular name : Shin Bet
Translation : General Security Service

Official name: Agaf ha-Modi'in
Popular name : Aman
Translation : Military Intelligence

Official name: Leshkat Keshet Madaot
Popular name : Lekem
Translation : Bureau of Scientific Relations

Name: Ministry of Foreign Affairs, Center for Political Research

* MOSSAD *

Mossad has responsibility for human intelligence collection, covert action, and counterterrorism. Its focus is on Arab nations and organizations throughout the world. Mossad also is responsible for the clandestine movement of Jewish refugees out of Syria, Iran and Ethiopia. Mossad agents are active in the former communist countries, in the West, and at the UN.

Mossad is headquartered in Tel Aviv. The staff of Mossad was estimated during the late 1980s to number between 1,500 to 2,000 personnel, with more recent estimates placing the staff at an estimated 1,200 personnel. The identity of the director of Mossad was traditionally a state secret, or at least not widely publicized, but in March 1996 the Government announced the appointment of Major General Danny Yatom as the replacement for Shabtai Shavit, who resigned in early 1996.

Formerly Popular name: the Central Institute for Coordination and the Central Institute for Intelligence and Security, Mossad was formed on 01 April 1951. Mossad was established by then Prime Minister David Ben Gurion, who gave as Mossad's primary directive: "For our state which since its creation has been under siege by its enemies. Intelligence constitutes the first line of defence...we must learn well how to recognise what is going on around us."

Mossad has a total of eight departments, though some details of the internal organization of the agency remain obscure.

- * Collections Department is the largest, with responsibility for espionage operations, with offices abroad under both diplomatic and unofficial cover. The department consists of a number of desks which are responsible for specific geographical regions, directing

case officers based at "stations" around the world, and the agents they control.

- * Political Action and Liaison Department conducts political activities and liaison with friendly foreign intelligence services and with nations with which Israel does not have normal diplomatic relations. In larger stations, such as Paris, Mossad customarily had under embassy cover two regional controllers: one to serve the Collections Department and the other the Political Action and Liaison Department.
- * Special Operations Division, also Popular name: Metsada, conducts highly sensitive assassination, sabotage, paramilitary, and psychological warfare projects.
- * LAP (Lohamah Psichlogit) Department is responsible for psychological warfare, propaganda and deception operations.
- * Research Department is responsible for intelligence production, including daily situation reports, weekly summaries and detailed monthly reports. The Department is organized into 15 geographically specialized sections or "desks", including the USA, Canada and Western Europe, Latin America, Former Soviet Union, China, Africa, the Maghreb (Morocco, Algeria, Tunisia), Libya, Iraq, Jordan, Syria, Saudi Arabia, the United Arab Emirates and Iran. A "nuclear" desk is focused on special weapons related issues.

Israel's most celebrated spy, Eli Cohen, was recruited by Mossad during the 1960s to infiltrate the top echelons of the Syrian government. Cohen radioed information to Israel for two years before he was discovered and publicly hanged in Damascus Square. Another Mossad agent, Wolfgang Lotz, established himself in Cairo, became acquainted with high-ranking Egyptian military and police officers, and obtained information on missile sites and on German scientists working on the Egyptian rocket program. In 1962 and 1963, in a successful effort to intimidate the Germans, several key scientists in that program were targets of assassination attempts. Mossad also succeeded in seizing eight missile boats under construction for Israel in France, but which had been embargoed by French president Charles de Gaulle in December 1968.

In 1960, Mossad carried out one of its most celebrated operations, the kidnapping of Nazi war criminal Adolph Eichmann from Argentina. Another kidnapping, in 1986, brought to Israel for prosecution the nuclear technician, Mordechai Vanunu, who had revealed details of the Israeli nuclear weapons program to a London newspaper. During the 1970s, Mossad assassinated several Arabs connected with the Black September terrorist group. Mossad inflicted a severe blow on the PLO in April 1988, when an assassination team invaded a well-guarded residence in Tunis to murder

Arafat's deputy, Abu Jihad, considered to be the principal PLO planner of military and terrorist operations against Israel. Gerald Bull, a Canadian scientist who developed the famed "Super Gun" for Iraq was killed by the Mossad at his Brussels apartment in March '90, effectively halting the development of the Supergun project.

Egyptian security services reported the discovery of a total of seven Israeli espionage networks during 1996, which is a significant increase compared to the 20 similar networks discovered in the previous 15 years.

And Mossad's record has also been blemished by a few embarrassing failures. In Lillehammer Norway on 07 January 1974 Mossad agents mistakenly killed Ahmad Boushiki, an Algerian waiter carrying a Moroccan passport, who they mistook for PLO security head Ali Ahmad Salameh, believed to have masterminded the 1972 massacre of Israeli athletes at the Munich Olympics [Salameh was killed in a 1979 car-bomb explosion in Lebanon]. Following the attack, the Mossad agents were arrested and tried before a Norwegian court. Five Israeli agents were convicted and served short jail sentences, though Israel denied responsibility for the murder. In February 1996 the Israeli government agreed to compensate the family of Ahmad Boushiki.

On 15 November 1995, Prime Minister Yitzhak Rabin was assassinated by Yigal Amir, an Israeli citizen. Following the controversy over the failure of intelligence to protect Rabin, and the embarrassment over the mistaken assassination of a Swedish national, the Director General of Mossad, known only as 'S', was forced into retirement. On 24 March 1996 Prime Minister Shimon Peres appointed Major General Danny Yatom as the new Director General of Mossad, the first Director of Mossad to ever be publically identified.

On 24 September 1997 Mossad operatives attempted to assassinate Khalid Meshaal, a top political leader of the Palestinian group Hamas. The assassins entered Jordan on fake Canadian, and injected Meshaal with a poison. Jordan was able to wring a number of concessions out of Israel in the aftermath of the fiasco, including the release of the founder of Hamas, Shaykh Ahmad Yasin, from an Israeli jail.

* SHIN BETH *

Shin Bet, the Israeli counter-intelligence and internal security service, is believed to have three operational departments and five support departments.

- * Arab Affairs Dept is responsible for antiterrorist operations, political subversion and maintenance of an index on Arab terrorists. Shin Bet detachments, Popular name: HENZA, worked with Aman undercover detachments [known as: Mista'arvim (Marauders)] to counter the uprising. This Department has also been active in countering the

military wing of Hamas.

- * Non-Arab Affairs Department, formerly divided into communist and noncommunist sections, concerned itself with all other countries, including penetrating foreign intelligence services and diplomatic missions in Israel and interrogating immigrants from the Former Soviet Union and Eastern Europe.
- * Protective Security Dept is responsible for protecting Israeli government buildings and embassies, defense industries, scientific installations, industrial plants, and the El Al national airline.

Shin Bet monitors the activities of and personalities in domestic right-wing fringe groups and subversive leftist movements. It is believed to have infiltrated agents into the ranks of the parties of the far left and had uncovered a number of foreign technicians spying for neighboring Arab countries or the Soviet Union. All foreigners, regardless of religion or nationality, are liable to come under surveillance through an extensive network of informants who regularly came into contact with visitors to Israel. Shin Bet's network of agents and informers in the occupied territories destroyed the PLO's effectiveness there after 1967, forcing the PLO to withdraw to bases in Jordan.

Shin Bet's reputation as a highly proficient internal security agency was tarnished severely by two public scandals in the mid-1980s. In April 1984, Israeli troops stormed a bus hijacked by four Palestinians in the Gaza Strip. Although two of the hijackers survived, they were later beaten to death by Shin Bet agents. It appeared that the agents were acting under orders of Avraham Shalom, the head of Shin Bet. Shalom falsified evidence and instructed Shin Bet witnesses to lie to investigators to cover up Shin Bet's role. In the ensuing controversy, the attorney general was removed from his post for refusing to abandon his investigation. The president granted pardons to Shalom, his deputies who had joined in the cover-up, and the agents implicated in the killings.

In 1987 Izat Nafsu, a former IDF army lieutenant and member of the Circassian minority, was released after his 1980 conviction for treason (espionage on behalf of Syria) was overturned by the Supreme Court. The court ruled that Shin Bet had used unethical interrogation methods to obtain Nafsu's confession and that Shin Bet officers had presented false testimony to the military tribunal that had convicted him. A judicial commission set up to report on the methods and practices of Shin Bet found that for the previous seventeen years it had been the accepted norm for Shin Bet interrogators to lie to the courts about their interrogation.

Shin Bet's reputation was further compromised by the assassinate of Prime Minister Yitzhak Rabin in November 1995 by a right-wing Israeli

extremist. In the aftermath of the ensuing scandal, the head of Shin Bet [Karmi Gillon] resigned in January 1996 and was succeeded by Rear Admiral Ami Ayalon.

* AMAN *

Military intelligence, or Aman, produces comprehensive national intelligence estimates for the prime minister and cabinet, daily intelligence reports, risk of war estimates, target studies on nearby Arab countries, and communications intercepts. Aman also conducts across-border agent operations.

Aman is an independent service, co-equal with the army, navy and air force. Aman's estimated staff of 7,000 personnel is currently led by Brigadier General Moshe Ya'alon. His immediate predecessor was Major General Yehoshua [Uri] Saguy.

Aman's Foreign Relations Department is responsible for liaison with foreign intelligence services and the activities of Israeli military attaches abroad. The Sayeret Maktal General Staff Deep Reconnaissance Unit is Israel's primary counter-terrorism and intelligence-gathering entity.

Small air force and naval intelligence units operated as semi-autonomous branches of Aman. Air force intelligence primarily uses aerial reconnaissance and radio intercepts to collect information on strength levels of Arab air forces and for target compilation. In addition to reconnaissance aircraft, pilotless drones are used extensively to observe enemy installations. Naval intelligence collects data on Arab and Soviet naval activities in the Mediterranean and prepares coastal studies for naval gunfire missions and beach assaults.

A number of electronic intelligence collection and observation facilities are located on the Golan Heights, including a facility at Har Avital which monitors Syria, and another at Mount Hermon which monitors both Lebanon and Syria.

Aman was held responsible for the failure to obtain adequate warning of the Egyptian-Syrian attack that launched the October 1973 War. Many indications of the attack were received but faulty assessments at higher levels permitted major Arab gains before the IDF could mobilize and stabilize the situation.

During preparations for the invasion of Lebanon in 1982, Aman correctly assessed the weaknesses of the Christian militia on which Israel was depending and correctly predicted that a clash with the Syrian garrison in Lebanon was inevitable. The chief of intelligence, Major General Saguy, made these points to the general staff and privately to the prime minister. But, although he was present at cabinet meetings, he failed to

make his doubts known to avoid differing openly with Begin and Sharon. Saguy was forced to retire after the Kahan Commission found that he had been delinquent in his duties regarding the massacres at the Sabra and Shatila Palestinian refugee camps.

* LEKEM *

Until officially disbanded in 1986, the Bureau of Scientific Relations (Leshkat Keshet Madao--Lekem) collected scientific and technical intelligence abroad from both open and covert sources. Lekem was dismantled following the scandal aroused in the United States by the arrest of Jonathan Jay Pollard for espionage on behalf of Israel. Pollard, a US naval intelligence employee in Washington, received considerable sums for delivering vast quantities of classified documents to the scientific officers (Lekem agents) at the Israeli embassy. Pollard was sentenced to life imprisonment. Although the Israeli government asserted that the operation was an unauthorized deviation from its policy of not conducting espionage against the United States, statements by the Israeli participants and by Pollard himself cast doubt on these claims.

Some sources assert that open and covert collection of scientific and technical information formerly conducted by Lekem is now conducted by a unit of the Ministry of Foreign Affairs.

* MINISTRY OF FOREIGN AFFAIRS, Center for Political Research *

The Foreign Ministry formulates, implements and presents the foreign policy of the Government of Israel. It represents the state vis-a-vis foreign governments and international organizations, explains its positions and problems throughout the world, endeavors to promote its economic, cultural, and scientific relations, and fosters cooperation with developing countries. Israel currently maintains diplomatic relations with 160 countries. The Ministry promotes relations with Diaspora communities and safeguards the rights of Israeli citizens abroad.

The Center for Political Research, which has ten departments, monitors events, developments and political processes, mainly in the Middle East, including international involvement therein. The Center's main tasks include gathering, analyzing and evaluating political information, as required by the Ministry; regular political briefings and guidance to Israel's missions throughout the world; and assisting the political information network, in Israel and overseas, with its expertise in Middle East affairs.

* E10 STATION PROFILE *

Mode : Female voice in AM
Language : English
Alphabet : Standard NATO phonetic alphabet

Id/callsign: Three letter phonetic callsign
ART, CIO, EZI, FTJ, GBZ, GPO, HNC, JSR, KPA, MIW, NDP,
OEM, PCD, ROV, SYN, TMS, ULX, VLB, YHF, ZWL

Note: there are different opinions re the id's. Are they the id/callsign of the receiver or the sender? Some say that the id represents the agency or department that is responsible for the message. Others think that the id indicates the target area and that the standard messages are for every agent in that area, while the special messages are for individual agents.

Suffixes : 1 = test message
2 = no message (QRU)
Other suffixes have been noted. Meaning unknown.

Schedule : 24 hours a day, on the hour, h+15, h+30, h+45
H+00 : FTJ (off-air 0100-0300 UTC)
H+30 : YHF
H+00 & H+30 : ART, PCD, ULX
H+00 & H+30 : EZI, JSR (off-air 2230-0100 UTC)
H+15 : KPA, MIW
H+45 : CIO, SYN, VLB

Location : Worldwide locations including Tel Aviv and other places in Israel. It is believed that host countries include South Africa and the USA.

Message types

* standard message:

Callup e.g. "Echo Zulu India" for three to five minutes
"Message, Message"
"Group xxx Group xxx"
"Text text"
xxx 5 letter groups
"End of Message"
"Repeat repeat"
Repeated message
"End of message"
"End of transmission"

* suffix message:

Id + suffix, e.g. CIO2, YHF1, FTJ4, etc.

* special message:

Apart from the 'suffix-messages' and normal 5LG messages, other character strings are transmitted. A number of them are listed below. SYN and VLB are quite active in this field.

- CI00A, CI04, CI0T145Z0900Z21, CI0X2, CI0Z
- FTJ9
- HNCU
- KPA26L53
- MIW18D16F44, MIW22B16P56, MIW56L44T26
- ROV5, ROVE, ROVG, ROVH
- SYN13161915, SYN162212, SYN175515, SYN26P15B38, SYN26T15P12D38, SYN7Z6, SYN90124
- VLB14B88, VLB18L36T46, VLB18P14L36R52, VLBG11071500, VLBL11081400S3081700Q11081530, VLB069081600Y56081800 VLB11080830D5081400, VLB11071000

Schedules:

Each id has its own unique set of frequencies. You may hear other id's on these frequencies. Most of them are faulty transmissions and stop after a minute or so.

ART	CI0	EZI	FTJ	JSR	KPA
3415	5170	6840	(2626)	2270	3270
5435	7811	9130	4436	5091	4665
		11565	(4461)	7540	5629
		13533			6745
		17410			
		19715			

MIW	PCD	SYN	ULX	VLB	YHF
3640	3150	4360	2743	8127	3840
5530	4165	3485	2844	10352	4560
6658	4270		3880	12750	5820
	6498		4880	14750	7918
				17170	10648

Notes:

Most transmissions are on 2 (sometimes 3) parallel frequencies. Frequencies between brackets are normally used by FTJ but are sometimes also used by other id's. This is apparently no mistake.

Other frequencies outside the normal schedules:

ART	EZI	FTJ	KPA	PCD	ULX	VLB
3417	2626	2626	4465	6270	2741	12747
5437	2628	2628			6270	
	4463	4461			7760	

Note that all frequencies have a 'width' of -2 kHz to +2 kHz. In case of interference they can shift 2 kHz up and down. When the interference or jamming is too severe they often change to alternative frequencies as 2628, 2741, 3417, 4463, 5437, 12747 kHz. The fact that alternative freqs are being used means that the transmissions are being monitored. Someone must inform the sender that the signal is not audible in the target area

Remarks:

- 1) You can quite often hear faulty transmissions due to a switching error or because the computer starts the transmission before the new frequency is set. The id's are then transmitted without a pause between the id's, e.g. JSR2JSR2 instead of JSR2 JSR2.
- 2) When the messages are too long, the transmission often ends in the middle of a message. During the next transmission the unfinished message is repeated.

Example (copied on 8 Sept 1998):

EZI starts on 21.30 with id + 102 groups of 5LG. Transmission stops during the repetition of the message at 21.55.

21.56: JSR2JSR2

21.57: EZI2EZI2EZI2EZI2

21.58: JSR2JS

22.00: EZI2 EZI2 for 3 minutes then off the air

22.00: JSR2 on its own freq for 3 mins, then off the air

The interrupted message was not repeated.

Later that evening a similar event happened. This time however the interrupted message was repeated during the next transmission.

Sources and resources:

- :: FAS -Federation of American Scientists-
- :: Spy Encyclopedia
- :: IntelWeb
- :: "Inside Israel's secret organisations"
JANE'S INTELLIGENCE REVIEW October 1996
- :: Israeli Defense Forces Official Homepage
- :: Justice for Jonathan Pollard the official Web Site authorized by Jonathan and Esther Zeitz-Pollard.
- :: Internet Association for the Liberation of Jonathan Pollard The Citizen's For Justice campaign headed by Carol Pollard
- :: What The Jerusalem Post wrote on Pollard (August 1992 - May 1996)
- :: Jonathan Pollard @ BETAR - TAGAR Zionist Youth Movement
- :: Israeli Foreign Ministry Official Homepage
- :: RTTY stations: see WUN vol.1 no.9 and WUN vol.2 no.6
- :: Special thanks to the WUN members who helped me with the schedules and info!

-0-0-0-0-0-0-0-0-0-0-

* NANCY ADAM SUSAN (E15) *

A station similar to E15 was heard on 28000 kHz on 05 Sept 1998, at 1700 UTC. A male voice said: GOLF 12 and Queen Thomas London or Queen Thomas Charly. Very similar to "Friend Young Peter" on 14000 in USB daily at 1700 UTC. The signal was very weak. Was it an harmonic from 14000 or a new one? Please observe this frequency and let me/us know what you heard.

-O-O-O-O-O-O-O-O-O-O-

* CZECH / SLOVAK STATION *

Andy Bell and Darren Riley reported a new Slovak station on 10642 kHz. It is however more likely that it is one of the Czech stations (S3, S18 or S19), especially because CW guru Guy Denman noticed that the messages that the station transmitted were identical to the ones transmitted by CW station M10, also transmitting from the Czech Republic!!!

Comments are most welcome! Thanks for the sound sample, Darren and same to you Andy for the transcriptions of the transmissions. One of them follows:

Friday, 28 August 1998, 1300 UTC, 10642 kHz, Slovak/OM - S19

111 111 111

70212 70212 70212 20 20 20

55529 55529 55529 16 16 16

36382 36382 36382 18 18 18

58645 58645 58645 19 19 19

111 111 111

70212 70212 70212 20 20 20

55529 55529 55529 16 16 16

36382 36382 36382 18 18 18

58645 58645 58645 19 19 19

111 111 111

70212 70212 70212 20 20 20

55529 55529 55529 16 16((((Header interrupted by message here.

70212 70212 70212 98 98 20 20

POZOR POZOR

68114 68114 27826 27826 17391 17391 53652 53652 60334 60334

83655 83655 93272 93272 12737 12737 53435 53435 04990 04990

51241 51241 21452 21452 15642 15642 21816 21816 88651 88651

81865 81865 82670 82670 19220 19220 77304 77304 13242 13242

POZOR POZOR

98 98 20 20

55529 55529 55529 62 62 16 16
 POZOR POZOR
 68177 68177 61283 61283 09367 09367 79983 79983 28844 28844
 82765 82765 59148 59148 90320 90320 37228 37228 18240 18240
 63143 63143 01625 01625 72552 72552 44893 44893 89323 89323
 77339 77339
 POZOR POZOR
 62 62 16 16

36382 36382 36382 66 66 18 18
 POZOR POZOR
 56922 56922 37363 37363 18824 18824 52346 52346 57216 57216
 53543 53543 65722 65722 50499 50499 80755 80755 18395 18395
 45234 45234 30086 30086 32760 32760 25065 25065 16991 16991
 61141 61141 66554 66554 73647 73647
 POZOR POZOR
 66 66 18 18

58645 58645 58645 88 88 19 19
 POZOR POZOR
 50045 50045 91501 91501 68968 68968 57041 57041 34252 34252
 75043 75043 45550 45550 18518 18518 14247 14247 68125 68125
 56600 56600 00990 00990 14351 14351 88290 88290 52619 52619
 89696 89696 69471 69471 20499 20499 02606 02606
 POZOR POZOR
 88 88 19 19

000

-0-0-0-0-0-0-0-0-0-0-

* THREE NOTE ODDITY (G4) *

Preamble : 3-note increasing scale repeated for 5 minutes
 Times : Summer 2005, 2035. Winter 2105, 2135 UTC
 Mode : AM
 Language : German

Frequencies :	01/95	3227	3127	02/95	3409	3309	03/95	3419	3319
	04/95	4581	4481	05/95			06/95	5281	5181
	07/95	5422	5322	08/95	5233	5133	09/95	4484	4384
	10/95	3389	3289	11/95	3176	3076	12/95	3199	3099
	01/96	3227	3127	02/96	3409	3309	03/96	3419	3319
	04/96	4581	4481	05/96	4165	4065	06/96	4340	4240
	07/96	3935	3835	08/96	4165	4065	09/96	3930	3830
	10/96	3280	3180	11/96	3270	3170	12/96	3285	3185

01/97	3230	3130	02/97	3245	3145	03/97	3275	3175
04/97	3936	3836	05/97	4245	4145	06/97	4376	4276
07/97	3930	3830	08/97	3935	3835	09/97	3915	3815
10/97	3315	3215	11/97	3265	3165	12/97	3255	3155

01/98	3255	3155	02/98	3265	3165	03/98	4435	4335
04/98	4745	4645	05/98	5410	5310	06/98	5730	5630
07/98	5840	5740	08/98	5755	5655	09/98	5310	5210

Message : 3-note raising scale (5 mins)
 "Achtung Achtung"
 32587 32587 05458 05458 32125 32125 etc
 "Ende Ende"
 "Achtung Achtung"
 Repetition of message(s)
 "Ende Ende"

Hans-Friedrich Dumrese sent us the above frequency review of the
 '3-note oddity'. He also passes on his comments about one of the
 September messages. Thanks a lot HF!

Message: 32587 05458 32125 45214 65212 85458 65458 65458 54120 45210
 45200 45158 65425 54214 74548 35458 62102 84502 78521 84522
 14520 87458 32125

Note the "... 65458 65458 ..."
 05458 62102 A lot of 32###, 45###, 65###, and
 14520 54120 ###458
 32125 32125
 125 32
 587 45158
 35458 45200
 45158 45210
 200 65212
 210 45214
 214 54
 54120 65425
 214 05458
 62102 35
 65212 65
 425 65
 458 85
 458 87
 74548 84502
 78521 14520
 84502 78521
 522 84522
 85458 74548

87458 32587

* MORSE STATIONS *

Without Guy, the morse section will be shorter than it used to be. I have the profiles of M51 and M63 on the shelf, but that's it. So if you have additional profiles, news or info, please send them to me for the column. Thanks!

::: M21: Russian Air Defense

Another type of 'mystery' station that is around for quite some time, is in fact not one single station but a network of stations belonging to the Russian forces. To the Russian Air Defense Forces to be more precise.

This is a typical message that can be best described as a QRV message: 'BT990457??8?????'. The digit after the first two question marks [8 in this example] may be different on the various frequencies. Each message starts with BT -....- followed by 99 and the time, being UTC+x. Then two question marks ?? ...--.. followed by a digit and again five question marks.

Besides 99, also other pairs of equal numbers have been logged like 44 and 66. In the past the other combinations were followed by messages of 13 characters, while the QRV messages consisted of 16 characters. Nowadays the normal messages may start with any combination after 'BT'. The length of all messages is now always 16 characters including 'BT'.

The timestring can vary from station to station from UTC+3 to 6 or even up to +12 hours, depending on the geographical area that the station services.

The stations have been heard on many frequencies. Here is a list:
2316, 2360, 3825, 3839, 4402, 5053, 5181, 5205, 5214.5, 5278.5, 5369.5, 5446, 5471.5, 6635, 6800, 7530, 7821, 8084 kHz.

Examples:

BT992T17??8?????
BT1TT654T7564312
BT1674788393212T

BT1TT63464491218
BT1TT6346449132T
BT1TT6446449292T
BT2TT25T11TT9T8?

In the early 90's a similar station transmitted on 5416 kHz. It sent the following QRV message in 50bd RTTY: VV99+1804+0+++++
The timestring was UTC+1. Just like the CW stations, this also was a military station. Probably belonging to the Russian forces in Eastern Germany or the East German forces.

-0-0-0-0-0-0-0-0-0-0-

::: M18: 'time station'

Location: Ust'Kamenogorsk, Kazakhstan

Frequencies: 3803, 4073 and 4503 kHz, probably on more freqs.

The transmission is in CW and consist of 4 digits. This represents the time in -presumably- Russia. Time given is UTC+2 to UTC+6. The station's clock is between one minute behind to one minute ahead of DCF77. Each time block is repeated 8x.

Example: 0317 (R8) 0318 (R8) 0319 (R8) etc.
indicating 03 hrs, 17, 18, 19 mins....

The time difference on various frequencies follows the same pattern as the Russian Air Defense stations (M21), where the time given depends on the area that is serviced. Is this its sister station???

-0-0-0-0-0-0-0-0-0-0-

::: XPH frequencies

Two months ago I asked for a frequency list in order to find out if there is a pattern. I compiled a bunch of frequencies but there are still a lot of gaps. Although there seems to be no fixed pattern, frequencies do return over the years.

o Wednesday and Friday morning sessions:

Month	Freq.	UTC	Freq.	UTC	Freq.	UTC
-----	-----	-----	-----	-----	-----	-----
03-95	10167	0600	?	0620	?	0640
01-96	5436	0750 (?)				
06-96	12099	0600	10399	0620	?	0640
07-96	12099	0600	10399	0620	?	0640
08-96	?	0600	?	0620	8172	0640
11-96	5413	0700	5131	0720	4031	0740
12-96	5754	0700	5254	0720	4454	0740
01-97	5754	0700	5245	0720	4454	0740

10-97	5463	0540	(?)			
12-97	?	0600	?	0620	10140	0740
05-98	9218	0600	?	0620	?	0640
06-98	9394	0600	11494	0620	13394	0640
07-98	9441	0600	11041	0620	12141	0640
08-98	9226	0600	10426	0620	12126	0640
09-98	9303	0600	10503	0620	12203	0640

o Tuesday and Friday evening sessions:

Month	Freq.	UTC	Freq.	UTC	Freq.	UTC
----	-----	----	-----	----	-----	----
??-95	?	2000	10372	2020	?	2140
11-95	5431	2100	5131	2120	?	2140
12-95	5754	2100	5254	2120	4454	2140
01-96	5754	2100	5234	2120	4454	2140
02-96	5754	2100	5334	2120	4454	2140
03-96	6959	2100	5859	2120	4259	2140
04-96	?	2000	9125	2020	7525	2040
06-96	13442	2000	11542	2020	10242	2040
07-96	12219	2000	11019	2020	9919	2040
08-96	10830	2000	?	2120	?	2140
11-96	5413	2100	5131	2120	4031	2140
12-96	5754	2100	5254	2120	4454	2140
01-97	5754	2100	5245	2120	4454	2140
02-97	5754	2100	5245	2120	4454	2140
03-97	6959	2100	5869	2120	5259	2140
04-97	10423	2000	9123	2020	7523	2040
05-97	12219	2000	11019	2020	9919	2040
06-97	13442	2000	11542	2020	10242	2040
07-97	12219	2000	11019	2020	9919	2040
08-97	10830	2000	?	2020	?	2040
11-97	5431	2100	5131	2120	4031	2140
12-97	5754	2100	5254	2120	4454	2140
08-98	13417	2000	11417	2020	9917	2040
09-98	10657	2000	9357	2020	7857	2040

* NUMBERS ON THE INTERNET *

Name : Worldwide Utility News

URL : <http://www.gem.net/~berri/wun>

Note : The N&O column in the WUN newsletters on our own home page

Name : QTH.Net archives

URL : <http://www.qth.net/archive/spooks/>

Note : Archive of messages sent to the Spooks mailing list (6 months)

Name : Spooks Newsletter
URL : <http://www.rtcom.us-inc.com/nsn1/>
Note : The N&O column a.k.a. Spooks Newsletter on the site of RTCOM

Name : 'Spy Centre' (Chris Smolinsky)
URL : <http://www.access.digex.net/~cps/numbers.html>
Note : Interesting photo's of Warrenton Training Center sites

Name : 'Numbers station on shortwave' (Mike Chace)
URL : <http://itre.ncsu.edu/radio/numbers.html>
Note : Includes info about the ENIGMA group

Site : 'Shortwave Radio' (Simon Mason)
URL : <http://www.btinternet.com/~simon.mason/page30.html>
Note : Includes Simon's book 'Secret Signals, the Euro Numbers Mystery'

Site : 'NSLog' (Leendert Combee)
URL : <http://www.geocities.com/Area51/Dimension/1087/nslog.html>
Note : Logs collected from the Spooks list. Not updated since February

Site : Irdial: Conet On-line
URL : <http://www.ibmpcug.co.uk/~irdial/coneline.htm>

Site : Irdial: the Conet project
URL : <http://www.ibmpcug.co.uk/~irdial/conet.htm>
Note : Irdial released a 4-cd box with numbers stations recordings

Site : 'Mysteries Of ShortWave Radio!' (C-RS Mag)
URL : <http://members.tripod.com/~Thrashinc/nbrstn1.htm>
Note : Item about numbers stations. Links should be updated though

Site : 'New Star Broadcasting Station' (Hans van den Boogert)
URL : <http://www.swl.net/radiochina>
Note : Interesting site about this active station

Site : Numbers Stations
URL : <http://www.clinet.fi/~peral/numbers.html>
Note : Lots of info but in Finnish only

Site : Spy Centre Chat Room
URL : <http://pluto.beseen.com/chat/rooms/c/10116/Login.html>
Note : Chat room for spooks fans

Site : Hugh Stegman's timeskeds
URL : <http://www.primenet.com/~rfwatts/uteworld/timesked.txt>
Note : Numbers stations schedules

Site : ENIGMA Newsletter

URL : <http://www.ibmpcug.co.uk/~irdial/enigma.htm>

Note : The ENIGMA group is not on the WWW. This page is on Irdial's web site. Additional info can be found on Mike Chace's page

* THE VENONA PROJECT *

On 1 February 1943, the U.S. Army's Signal Intelligence Service, a forerunner of the National Security Agency, began a small, very secret program, later codenamed VENONA. The object of the VENONA program was to examine and possibly exploit, encrypted Soviet diplomatic communications. These messages had been accumulated by the Signal Intelligence Service (later renamed the U.S. Army Signal Security Agency and commonly called "Arlington Hall" after the Virginia location of its headquarters) since 1939 but had not been studied previously.

Miss Gene Grabeel, a young Signal Intelligence Service employee, who had been a school teacher only weeks earlier, started the project.

The accumulated message traffic comprised an unsorted collection of thousands of Soviet diplomatic telegrams that had been sent from Moscow to certain of its diplomatic missions and from those missions to Moscow. During the first months of the project, Arlington Hall analysts sorted the traffic by diplomatic mission and by cryptographic system or subscriber.

Initial analysis indicated that five cryptographic systems, later determined to be employed by different subscribers, were in use between Moscow and a number of Soviet overseas missions. It also became apparent that one system involved trade matters, especially Lend-Lease. The other four systems appeared to involve the Soviet Foreign Ministry in Moscow in communication with its missions abroad.

:::: the complete information, including hundreds of real messages, can be found on the site of the National Security Agency. Interesting stuff! Check URL <http://www.odci.gov/ic/usic/nsa.html>

* REVIEW * REVIEW * REVIEW *

'The Numbers Racket CD-ROM' reviewed by Bob Margolis, 136 East Woodland Road, Lake Forest, IL 60045-1729 <rttyman@wwa.com>

Romanian Gypsy violin music. A Czech military march. Hugo Alfven's orchestral piece, "Swedish Rhapsody." An old English folk song.

These melodies are some of the assortments of sounds that have been heard over shortwave radio for decades and serve to alert intelligence agents in the field that a coded transmission of groups of letters or

numbers is about to be sent to them.

Over 100 of these sounds and coded transmissions have been gathered together for listening and studying on The Numbers Racket: A Compilation of SW Spy Numbers Stations, collected on CD-ROM by Chris Smolinski of Maryland, who has concentrated on these transmissions for many years.

The Numbers Racket serves as an excellent reference guide to "numbers stations" for first-time listeners as well as those who have heard them for years.

Many of the broadcasts have never been heard in North America as they were tape recorded mostly in Europe at times when propagation would not carry the signals across the ocean. Now the North American listener can share in the enjoyment of hearing these stations by the samples provided on the CD.

Upon loading the CD-ROM into the disc drive, the program looks for an Internet Web browser to read its hypertext-marked pages. The disc is readable on Macintosh computers and PC's using Windows. In the reviewer's case, the program opened in Netscape Communicator 4.5. The first page of The Numbers Racket gives a brief introduction to spy numbers stations, telling what they are, and a general description of their broadcasts.

The next page is the Table of Contents, which shows the "book" to be divided into three sections. Section One is "The Basics." It consists of eight chapters. Chapter 1 is an Introduction that goes into more detail in describing the numbers stations that were introduced on page one. Chapter 2 is Why Numbers Stations? Chapter 3 is How are Messages Sent?, and talks about codebooks, one-time pads, bogus messages, using Morse Code, voice, and tone series for transmitting coded messages in formats of 3/2-, 4- and 5-figure-groups. Strangely omitted from this chapter were 5-letter-grouped messages, and transmissions that use digital-data or RTTY for sending coded messages from, for example, the Russian FAPSI, the French naval and diplomatic stations, the Cuban foreign ministry, and the Argentine Navy.

Chapter 4 gives Terminology used to describe numbers broadcasts, including the sex of the reader, the language used, and formats of the messages. Chapter 5, How to Listen, tells when to tune in the numbers stations and in which frequency ranges they are found. Chapter 6 classifies the stations as identified by the European Numbers Information Gathering and Monitoring Association (ENIGMA), a club that was formed in 1992 to learn more about spy number stations. The breakdown is by languages and non-voice transmissions.

Chapter 7 talks about Morse Code stations, and chapter 8 is Station Families, which is chapter 6 sorted into family groupings.

Chapters 9 through 44 are in Section Two and describe individual number stations. The chapters are devoted to "The Babbler," "The Bored Man," "Bulgarian Betty," "The Buzzer," "Cherry Picker," "The Counting Station--The CIA," "Cuban Atencion Stations," "Czech Drums & Trumpets," "Czech Lady," "DFC37 and DFD21," "Fife Free," "Four Note Rising Scale," "High Pitch Polytone," "KKN50," "The Lincolnshire Poacher," "Magnetic Fields," "MOSSAD--Israeli Intelligence," "Mystery Beeper," "New Star Broadcasting Station," "NNN Station," "Oblique," "Old Phonetic Alphabet Stations," "OLX," "The Rasper (LINK-11)," "Ready Ready," "The Russian Man," "The Skylark," "Single Letter High Frequency Markers," "Six Tone Station," "Strich," "Swedish Rhapsody," "Three Note Oddity," "Two Letter Phonetic," "Whales/Backwards Music," "The Woodpecker," and "Station YT."

Section Three consists of chapters 45 through 51, and discusses numbers stations parodies and the Warrenton Training Center; provides other sources of information, a language guide, and a bibliography that lists books and magazines with articles about numbers stations; a tribute to "Havana Moon," who wrote extensively during the 1980's about numbers stations for hobby magazines; and a list of persons who contributed their information to the CD-ROM.

If you have any interest in spy numbers stations, then The Numbers Racket is a "must buy" for you. You'll find yourself referring to it often.

The CD-ROM can be purchased with credit card, check, or money order. If purchasing by credit card, the disc costs \$25, which includes a credit card processing fee, postage and handling. Those living outside the United States who wish to use credit cards, can use the Kagi Online Order Processing system. Payment by check drawn on a U.S. bank, or a money order in U.S. funds, is \$20, including postage and handling within the U.S., and \$22 outside the country. Send checks or money orders to Chris Smolinski, 4708 Trail Court, Westminster, MD 21158-1146, U.S.A. Online credit card users are asked to include their complete postal address for proper shipping, and an e-mail address, in case Chris needs to get in touch with you.

* LOGS * LOGS * LOGS * LOGS * LOGS * LOGS * LOGS * LOGS *

Hi, due to Jascha's holidays, I have collected and edited the logs this month. I admire Jascha (and WUN's Team Logs) for all the work that they have to do. Because of other obligations, I have not been able to pick up all the logs, but I guess I have the majority listed here. Editing these logs is really a huge job. It took me about 9 hours to have them listed as they are now. As you can see I haven't edited them all down to 'our' format because of lack of time. On behalf of the logs editors

I urgently request you to keep as close to the format as possible, it really helps a lot!

Preferred:

Freq c/s Station Enigma-Code Time date Mode baud Remarks (Initials)

or:

Freq, callsign, station, rest...

Example:

10426 Lincolnshire Poacher E3 1540 13/april USB ongoing msg (JRU)

Please send your logs to Jascha as usual. In case you want to remain anonymous, please let us know. Thanks for the huge list.....

2270 Mossad E10 Mon 17.08.98 2200 JSR2 // 5091 (HFD)
2628 Mossad (E10) 2201 (27/Aug 98) AM id FTJ (DR)
2743 Mossad (E10) 2301 (26/Aug 98) AM id ULX (DR)
3150 E10 Tue 04.08.98 2100 Phon. Alphabet (NATO) PCD2 (HFD)
3150 Mossad (E10) 2301 (12-08-98) AM id PCD group 94 (DR)
3150 Mossad (E10a) 2330 (12-08-98) AM id PCD2 (DR)
3389 Atencion stn V2 (9/22/98) 0105 in progress (BR)
3389 Atencion stn V2 0100Z 9/15/98 AM (BR)
3389 Atencion stn V2 0104ZZ 9/8/98 AM in progress (BR)
3389 Atencion V2. 0100z, Tues 09/15. Lots of noise and QRM. Ended at 0144z with three "final". (JL)
3389 V2 0100Z (1 Sept) Atencion stn (BR)
3417 Mossad (E10a) 2332 (26/Aug 98) AM id ART group 29? (DR)
3840 Mossad E10 1910z (thur 17 sept) USB YL/EE 5 letter groups (JD)
3903 Powerful pulse jammer, 22.40 (Aug 21) (AB)
3927 V2 0100 Sunday 8/30/98 Atencion YL/SS 5FG completely covered w/QRM from hams. (JM4)
3927 V2 0100Z (23 Aug) Atencion stn - very weak (BR)
3927 V2 0100Z (30 Aug) Atencion stn - very weak (BR)
4027 M8 cut no's stn (9/15/98) 0300Z CW msgs ITRWA GRTWN TWTUD (BR)
4028 Atencion stn. V2 0602 (13/Sep) Atencion 50661 41591 28691 (VM)
4028 V2 AM 0600z Sunday 20/09/98 460(?)3(?)1 64961(?) 08641 - LOTS of noise and voice was distorted, almost like the V2A (old-format) transmissions (PFR)
4028 V2 AM 1003 ATTENTION .6431 13061 53643 (Cont'd) (female - SS - Thursday) 17 Sep 98 (LBJ)
4029 M1, 05.28 (Aug 15) CW 555x3 571x3 13 275x3 25 049x3 15 435x3 20 (AB)
4029 M10 Mon 7 Sept 2100 555x3 783x3 34 961x3 48 New Freq (GD2)
4029 M10, 05.20 (Aug 15) CW Missed start ...435 20 571 571 571 72 72 13 into 5FG (AB)
4036 Atencion V2. 1138z, Wed 09/16. In progress, very weak and degraded further later on. Ended with three(?) "final" at

1146z. (JL)

4039 M51, F 21.50 (Aug 19) CW 5LG's (AB)

4130 E15 Tue 04.08.98 2100 Phon. Alphabet (pre Nato) ESS or
OSS (HFD)

4130 Phonetic alphabet-pre NATO (E15) 2102 (24/Aug 98) USB In
progress (DR)

4130 Phonetic alphabet-pre NATO (E15) 2106 (27/Aug 98) USB OSS(?)
QRU (DR)

4130 Phonetic alphabet-pre-NATO (E15) 1905 (12-08-98) USB id SAR
then phonetics (DR)

4130 Phonetic alphabet-pre-NATO (E15) 2107 (12-08-98) USB id missed
QRU (DR)

4130 Pre Nato phonetic alphabet E15 1907z (sat 19 sept) USB OM/EE
weak signal, missed callsign (JD)

4165 E10 Fri 14.08.98 1845 Phon. Alphabet (NATO) VLB2 //5629 (HFD)

4165 E10 Tue 04.08.98 2100 Phon. Alphabet (NATO) KPA2 (HFD)

4270 Mossad (E10) 0000 (25/Aug 98) AM id PCD 2 messages 1st group
94 (DR)

4270 Mossad (E10) 0000 (27/Aug 98) AM id PCD group 117 (DR)

4270 Mossad (E10) 0030 (27/Aug 98) AM id PCD 2 messages 1st group
21 2nd group 46 (DR)

4270 Mossad (E10) 1902 (27/Aug 98) AM id PCD group 20 (DR)

4270 Mossad (E10) 2030 (26/Aug 98) AM id PCD group 21 (DR)

4270 Mossad (E10) 2030 (26/Aug 98) AM id PCD group 37 (DR)

4270 Mossad (E10) 2233 (24/Aug 98) AM id PCD group 21 (DR)

4270 Mossad (E10) 2300 (26/Aug 98) AM id PCD 2 msgs 1st gr 94 (DR)

4270 Mossad (E10) 2301 (23/Aug 98) AM id PCD 2 msgs 1st gr 94 (DR)

4270 Mossad (E10) 2301 (25/Aug 98) AM id PCD 2 msgs 1st gr 94 (DR)

4270 Mossad (E10) 2302 (22/Aug 98) AM id PCD 2 msgs group 94 then
group 84 at 2315 end at 2326 (DR)

4270 Mossad (E10a) 1930 (26/Aug 98) AM id PCD1 no msg (DR)

4270 Mossad (E10a) 2000 (26/Aug 98) AM id PCD2 no msg (DR)

4270 Mossad (E10a) 2030 (26/Aug 98) AM id PCD no msg ?? (DR)

4270 Mossad (E10a) 2101 (24/Aug 98) AM id PCD2 no msg (DR)

4270 Mossad (E10a) 2203 (24/Aug 98) AM id PCD1 no msg (DR)

4270 Mossad E10 1910z (thur 17 sept) USB YL/EE 5 letter groups (JD)

4460 Mossad (E10) 0001 (13-08-98) AM id FTJ group 118 (DR)

4460 Mossad (E10) 0002 (12-08-98) AM id FTJ (DR)

4460 Mossad (E10a) 0100 (12-08-98) AM id FTJ1 no msg (DR)

4463 Mossad (E10) 1801 (11-08-98) AM id YHF group 91 (DR)

4463 Mossad (E10) 1900 (11-08-98) AM id FTJ group 28 (DR)

4463 Mossad (E10) 1932 (26/Aug 98) AM id FTJ group 24 (DR)

4463 Mossad (E10) 2030 (12-08-98) AM id FTJ group 10 (DR)

4463 Mossad (E10) 2030 (26/Aug 98) AM id FTJ (DR)

4463 Mossad (E10) 2203 (12-08-98) AM id FTJ group 44 (DR)

4463 Mossad (E10) 2231 (12-08-98) AM id FTJ group 16 (DR)

4463 Mossad (E10a) 2000 (26/Aug 98) AM id FTJ2 no msg (DR)

4463 Mossad (E10a) 2030 (26/Aug 98) AM id FTJ2 no msg (DR)

4463 Mossad E10 1911z (thur 17 sept) USB YL/EE 5 letter gr (JD)
 4479 5 num SS/YL V2? 0300Z 9/9/98 AM no "Atencion" hrd (BR)
 4479 Atencion stn V2 0400Z 9/11/98 AM (BR)
 4485 Czech Lady, 1355 (3 Sept), 555x3 313x3 05 313 42 05 POZOR
 70029 42 05 KONETS (KH)
 4485 M10 Sun 30.08.98 1645 555 571/38 275/35 (HFD)
 4506 M8 0100Z (27 Aug) CW stn - very weak & bad QRN (BR)
 4506 M8 cut no's stn (9/17/98) 0100Z CW msgs ITRWD GGDNA MITRA (BR)
 4506 M8 Cut no's stn 0100Z 9/10/98 CW msgs UMMIN MWDAN UANIA (BR)
 4506 M8 Cut no's stn 0300Z 9/9/98 CW msgs RUIDD TMMWN UWITD (BR)
 4506 M8 Cut no's stn 0400Z 9/11/98 CW msgs NGIMN UDADA GGGTA (BR)
 4560 E10 Tue 04.08.98 2100 Phon. Alphabet (NATO) YHF2 (HFD)
 4560 Mossad (E10) 2332 (22/Aug 98) AM id YHF 2 msgs group 22 then
 group 50 (DR)
 4620 German Lady (G7) 2054 (14/Sep 98) AM id 359 181, 53, 181, 53,
 000 000 ende at 2100 (DR)
 4640 E5 TCS. 0000z, Sat. 08/22. Carrier in progress at 2354z.
 Preamble: 248 Count: 90 3/2FG. "end" 0027z. //5046. (JL)
 4660 Mossad (E10a) 0101 (13-08-98) AM id FTJ2 no msg (DR)
 4665 Mossad (E10a) 2015 (13-08-98) AM id KPA2 (DR)
 4783 M10 555 0210 CW 555(x3) 249(x3) 487(x3) 23 (Cont'd) (Tuesday)
 (QSZ - T=0) 22 Sep 98 (LBJ)
 4783 Unid 0218 CW (In 5fig tfc - QSZ - T=0 - Tuesday)(0222Z) BT(x2)
 15(x2) 43(x2) 487(x3) 31(x2) 13(x2) BT(x2) 41350 24336 ...
 BT(x2) 31(x2) 13(x2) TTT 15 Sep 98 (LBJ)
 4802 Backwards Music station, 21.14 (Aug 18) TONES Different from
 the others. Sounds more like whistles (AB)
 4850 M12 2053 (22/aug) CW 5FG in progress. Ended with 000 000 (VM)
 4880 Mossad (E10) 0032 (13-08-98) AM id ULX group 78? (DR)
 4880 Mossad (E10) 0200 (13-08-98) AM id ULX gr 56 FAST DELIVERY (DR)
 4880 Mossad (E10a) 0131 (13-08-98) AM id ULX2 no msg (DR)
 4880 Mossad E10 1911z (thur 17 sept) USB YL/EE 5 letter groups (JD)
 4880 Mossad ULX 2300 USB ULX Marker 6 Sep 98 (Sunday)(LBJ)
 4891 M14 2309 (06/Sep) CW in progress. Ended at 2311 with == 922 922
 30 30 00000 (VM)
 4904 M1, 20.00 (Aug 18) CW 025 (R4) 517 517 40 40 = = 5FG (AB)
 4904 M1A, 20.00 (Aug 25) CW 025 End of the month transmission.
 Different format (AB)
 4904 M1A, 20.00 (Aug 27) CW 025 End of the month transmission (AB)
 4905 M01 Thu 20.08.98 2000 025 (HFD)
 4930 M1C, 21.55 (Aug 19) CW 216 216 216 96210 96210 pause 216 216
 216 000 (AB)
 4930 M51, F 05.49 (Aug 20) CW nr36 A 20 07:49:51 1998 BT + 5LG (AB)
 4948 Cyrillic letter station, 20.20 (Aug 17) CW Transmits Cyrillic
 characters separated by a space mark (AB)
 4990 M1B Mon 7 Sept 2010 298 551 551 42 42 = = New Freq/ID (GD2)
 5027 Czech Lady, 1355 (3 Sept), 555x3 313x3 05 313 42 05 POZOR
 70029 42 05 KONETS (KH)

5027 S17 Fri 14.08.98 1355 Czech Lady Control 69036 // 4485 (HFD)
5027 S17 Mon 10.08.98 1355 Czech Lady Control 69039 // 4485 (HFD)
5027 S17 Sat 01.08.98 1355 Czech Lady Control 70036 // 4485 (HFD)
5027 S17 Sat 15.08.98 1355 Czech Lady Control 67036 // 4485 (HFD)
5027 S17 Sun 02.08.98 1355 Czech Lady Control 72031 // 4485 (HFD)
5027 S17 Thu 20.08.98 1355 Czech Lady Control 69035 // 4485 (HFD)
5027 S17 Thu 27.08.98 1355 Czech Lady Control 70031 // 4485 (HFD)
5027 S17 Tue 18.08.98 1355 Czech Lady Control 70031 // 4485 (HFD)
5027 S17 Tue 25.08.98 1355 Czech Lady Control 69032 // 4485 (HFD)
5027 S17 Wed 12.08.98 1355 Czech Lady Control 68035 // 4485 (HFD)
5027 S17 Wed 26.08.98 1355 Czech Lady Control 68030 // 4485 (HFD)
5046 TCS (E5) 0000 (15-08-98) USB id 912 count 109 (DR)
5046 TCS (E5) 0001 (13-08-98) USB id 912 count 109 (DR)
5046 TCS (E5) 0002 (14-08-98) USB id 912 count 109 (DR)
5046 TCS (E5) 0005 (10-08-98) USB id 888 count 85 (DR)
5046 TCS (E5) 0006 (11-08-98) USB id 071 count 104 (DR)
5074 M45 Tue 25.08.98 1702 5474, 074, 134 92 == 77314... (no
55555 or 00000) (HFD)
5083 M1B Sat 10 Sept 0710 805 R4 810 810 45 45 = = (GD2)
5085 English man E06 2209 (09/Sep) AM in progress. Ended at 2221
with 178 178 95 95 00000 (VM)
5091 Mossad (E10) 2032 (29/Aug 98) AM id JSR group 72 (DR)
5091 Mossad E10 1611z (tue 22 sept) USB YL/EE 5 letter groups (JD)
5116 M8 Cut no's stn 0200Z 9/11/98 CW msgs NTWRU GIANA WWAGA (BR)
5135 M51 2129 (25/aug) msg NR70 in progress. Transmitting consecutive
msgs at least until 0745 (26/aug), when it became inaudible. The
time broadcasted is UTC+2 delayed one minute and some seconds,
so I suppose that a long dash emitted at 2201UTC is the signal
for a new date. (VM)
5170 E10 Fri 14.08.98 1845 Phon. Alphabet (NATO) CI02 (HFD)
5178 Backwards music XM 1918z (thur 17 sept) very strong, sounded
almost like whale sounds (JD)
5180 Cherta S12 Wed 05.08.98 2100 Cherta 671/00, tremendous sig (HFD)
5224 M51 0444 (01/Sep) CW "BT NR 71 S 01 06:43:19 1998 BT" (VM)
5224 M51 21:58:42 (31/Aug) CW "BT NR 06 A 31 23:57:24 1998 BT" and
into 5LG. 10 seconds pause at 22:01:28. Only 98 groups in this
msg(VM)
5278 M1A, 18.00 (Aug 27) CW 025 End of the month transmission (AB)
5278 M1A, 18.02 (Aug 25) CW 025 End of the month transmission.
Different format (AB)
5290 Russian Lady (S21) 1945 (14/Sep 98) AM id 491 985x2, 43x2,
0 0 0 at 1956 (DR)
5290 Russian Lady (S21) 1946 (17/Sep 98) AM id 491 (DR)
5290 Russian Lady? (S21?) 1945 (13-08-98) AM (DR)
5335 M51 0450 (01/Sep) CW "BT NR 72 S 06:49:32 1998 BT" (VM)
5335 M51 2307 (31/Aug) CW "BT NR 17 S 01 01:06:15 1998 BT" (VM)
5339 Mossad (E10a) 2120 (14/Sep 98) USB TMS2 still going at 2005 (DR)
5339 Mossad (E10a) 2120 (14/Sep 98) USB? id TMS2 (DR)

5339 Mossad E10 "Tango Mike Sierra Two" Right now (20:00 UTC)
 5339 Mossad E10 1934 (14/Sep) AM repeating "TMS2" until 2136, then
 short pause and repeats "TMS30" for three minutes, another
 pause and "TMS2" again until 2300 (VM)
 5339 Mossad E10 2142z (mon 14 sept) USB YL/EE repeating TMS 2 (JD)
 5340 E23 Wed 26.08.98 0757 Swedish Rhapsody 91472 06906 37746 (HFD)
 5340 Swedish Rhapsody (E23) 0757 (24/Aug 98) USB very weak (DR)
 5416 M8 Cut no's stn 0300Z 9/9/98 CW msgs UMMIA WNUGD TMNTA (BR)
 5419 M8 CW 0208z Saturday 19/09/98 in progress - NEW (PFR)
 5419 M8 CW 0300z Thursday 10/09/98 NGIMA TMMWD RUTTA (PFR)
 5422 //6485//8464 LP (E3) 1803 (28/Aug 98) USB id 73110 (DR)
 5422 //6485//8464 LP (E3) 1807 (14-08-98) USB id 04242 (DR)
 5422 //6485//8464 LP (E3) 1900 (15-08-98) USB id 73110 (DR)
 5422 //6485//8464 LP (E3) 1901 (29/Aug 98) USB id 73110 (DR)
 5422 //6485//8464 LP (E3) 2202 (23/Aug 98) USB id 73110 (DR)
 5422 //6485//8464 LP (E3) 2207 (09-08-98) USB id 04242 (DR)
 5422 //8485//8464 LP (E3) 1700 (27/Aug 98) USB id 73110 (DR)
 5422 LP (E3) //16485//8464 1907 (19/Sep 98) USB id 24988 (DR)
 5422 LP (E3) //6485//8464 1704 (17/Sep 98) USB id 24988 (DR)
 5422 LP (E3) //6485//8464 2205 (13/Sep 98) USB id 27249 (DR)
 5422 LP (E3) //6485//8465 1803 (18/Sep 98) USB id 24988 (DR)
 5431.5 P7X //5779.5 5lg stn 0134Z 9/11/98 CW (BR)
 5431.5 P7X //5779.5 CW 0335z Thursday 10/09/98 in progress (PFR)
 5431.5 P7X //5779.5 CW 0345z Thursday 10/09/98 (PFR)
 5431.5 P7X //5779.5 CW 0404z Thursday 10/09/98 in progress - much
 fainter (PFR)
 5431.5 P7X //5779.5 CW 0511z Thursday 10/09/98 in progress (PFR)
 5431.5 P7X 0150 CW (Data Burst) QRA de P7X (Copied agn at 0202, 0230
 and 1305Z) (Sunday) 6 Sep 98 (LBJ)
 5431.5 P7X 0625 (13/Sep) CW in progress (VM)
 5431.5 P7X 5 ltr grps 0032 9/10/98 CW - start of sked - goes til at
 least 0400Z (BR)
 5431.5 P7X 5 ltr grps 0100Z 9/8/98 CW (BR)
 5431.5 P7X CW 0303z Thursday 10/09/98 in progress (PFR)
 5431.5 Unid 0235 CW (In 5ltr code - suspect P7X)(Tuesday) 15 Sep
 98 (LBJ)
 5435 Mossad RC/USB 0300 Saturday 8/29/98 E10 YL/EE rptg "ART2" then
 down at :03. (JM4)
 5435 Mossad RC/USB 0300 Sunday 8/30/98 E10 YL/EE rptg "ART2" then
 down. (JM4)
 5529 Phonetic alphabet-pre-NATO (E15) 2006 (11-08-98) USB id NAS
 then QRU (DR)
 5530 E15 Sun 02.08.98 2000 Phon. Alphabet (pre Nato) m NAS QTC
 NR1 ?R01 5L (wdh) (HFD)
 5530 Mossad (E10a) 2315 (26/Aug 98) AM id MIW2 (DR)
 5530 Mossad E10 1911z (thur 17 sept) USB YL/EE MIW 2 (JD)
 5629 Mossad, 2118 (28 Aug) KPA2 (PV)
 5630 Mossad (E10a) 2016 (26/Aug 98) AM id KPA2 no msg ended callup

2020 (DR)

5653 Three Note Oddity (G4) 2035 (23/Aug 98) AM? 'Tune' then numbers (DR)

5655 G04 Sun 02.08.98 2035 3 Note Oddity 67890 13248 28967... (HFD)

5746 //6485//8464 LP (E3) 1902 (26/Aug 98) USB id 10118 (DR)

5746 //6485//8464 LP (E3) 1906 (12-08-98) USB id 41836 (DR)

5746 //6959//9251 LP (E3) 1805 (11-08-98) USB id 41836 (DR)

5746 //6959//9251 LP (E3) 2101 (23/Aug 98) USB id 66269 (DR)

5746 //6959//9251 LP (E3) 2104 (27/Aug 98) USB id 77350 (DR)

5746 //6959//9251 LP (E3) 2105 (09-08-98) USB id 94454 (DR)

5746 //6959//9251 LP (E3) 2105 (13-08-98) USB id 41836 (DR)

5746 //6959//9251 LP (E3) 2200 (14-08-98) USB id 41836 (DR)

5746 //6959//9251 LP (E3) 2201 (28/Aug 98) USB id 77350 (DR)

5746 LP (E3) //6959//9251 2105 (17/Sep 98) USB id 31663 (DR)

5746 LP (E3) //6959//9251 2106 (13/Sep 98) USB id 26493 (DR)

5746 LP (E3) //6959//9251 2202 (18/Sep 98) USB id 31663 (DR)

5747 German Lady (G7) 1850 (18/Sep 98) AM id 167 562, 153, 562, 153 000 000 ende at 1909 (DR)

5750 M01B Fri 28.08.98 2102 871 (HFD)

5753 Three Note Oddity (G4) 2005 (23/Aug 98) AM? Numbers unintelligible (DR)

5755 G04 Sun 02.08.98 2005 3 Note Oddity 67890 13248 28967... (HFD)

5762 Atencion stn V2 0200Z 9/12/98 AM (BR)

5762 V2 "Atencion". 0201z, Sat. 08/22. 5FG. Started late, data transmission close by. (JL)

5762 V2 AM 0200 Saturday 8/29/98 Atencion YL/SS rptg "A 68353 83062 18822" and into 5FG. (JM4)

5762 V2 AM 0200z Saturday 19/09/98 - 97523 89273 27422 with "fast 5" (PFR)

5762 V2 USB 0200 ATTENTION 97523 89283 67462 (Lots of noise - Female/SS - Sat) 19 Sep 98 (LBJ)

5779.5 P7X 0452 (10/Sep) CW in progress (VM)

5779.5 P7X CW 0317z Thursday 10/09/98 in progress (PFR)

5811 Mossad E10 1610z (tue 22 sept) USB YL/EE 5 letter groups (JD)

5820 Mossad E10 2006z (sat 19 sept) USB YL/EE 5 letter groups (JD)

5834 E15 Sun 02.08.98 1730 Phon. Alphabet (pre Nato) m ??? (HFD)

5834 E15 Sun 02.08.98 1800 Phon. Alphabet (pre Nato) m ??? msg (HFD)

5834 E15 Thu 06.08.98 1800 Phon. Alphabet (pre Nato) WSP QRU (HFD)

5834 E15 Tue 25.08.98 1730 Phon. Alphabet (pre Nato) m OSS QRU (HFD)

5834 Phon alphabet-pre NATO (E15) 1801 (24/Aug 98) USB WSP QRU (DR)

5834 Pre Nato Phon alphabet E15 1808z (sat 19 sept) USB OM/EE WSP QRU (JD)

6200 E23 Thu 20.08.98 0957 Swedish Rhapsody 46215 39665 38174 (HFD)

6270 Mossad ULX2 0130 USB ULX2 Marker 6 Sep 98 (Sunday)(LBJ)

6283 M01B Tue 25.08.98 1723 382 (HFD)

6484 //7755//10426 LP (E3) 1607 (12-08-98) USB id 04242 (DR)

6485 //7755//10426 LP (E3) 1600 (26/Aug 98) USB id 73110 (DR)

6485 LP (E3) //7755//10426 1604 (16/Sep 98) USB id 24988 (DR)

6485 LP E3 //8464 1903z (sat 19 sept) USB YL/EE 24988 (JD)
6545 Fife free E18 2104 (09/Sep) USB in progress. ID 269 Numbers
129 Groups 019. Ended at 2110 (VM)
6575 Mossad E10 2306 (09/Sep) repeating "Hotel November Charlie
Uniform" until 2310 (VM)
6627 M13 2156 (21/aug) CW 5FG in progress. Groups 21. Ends at 2201
with three long dashes (VM)
6650 96403 unknown AM 1000 ATTENTION 96403 (3/2 format - female/
Friday) 18 Sep 98 (LBJ)
6658 Mossad (E10a) 2319 (09-08-98) AM id MIW2 (DR)
6695 Backards music XM 1919z (thur 17 sept) different to 5178. Rapid
tones which sounded like a "laser gun" from an arcade type
computer game (JD)
6745 Mossad (E10a) 2317 (09-08-98) AM id KPA2 (DR)
6753 Backwards music XM 2219z (thur 17 sept) sounded different to
both 5178 and 6695 (JD)
6767 M8 1204 CW (In 4 ltr cut nrs - TRAWGMDIUN - Sunday)AR (x3)
WRMUA (x5) BT (x3) UWAI GDANG ...(1215Z) AR (x3) DUMWD (x5)
BT (x3) AMAMD GTTRD ... (1226Z) AR (x3) VA(x3) (OTA 1231Z)
20 Sep 98 (LBJ)
6768 Atencion stn V2 0100Z 9/12/98 AM very weak audio (BR)
6768 M8 Cut no's stn 1115Z 9/12/98 CW in progress (BR)
6768 V2 "Atencion". 0100z, Sat. 08/22. 5FG. Started early at 0056
with "Atencion...[three numbers]". (JL)
6768 V2 AM 0107z Saturday 19/09/98 in progress (PFR)
6785 M8 Cut numbers 0711 (07/Sep) CW in progress. 2nd msg: RWTWD,
3rd: ATAWA (VM)
6786 Atencion stn. V02 0604 (13/Sep) in progress (VM)
6786 V2 AM 0600z Sunday 20/09/98 80573 04222 77721 - very clear -
"fast 5" (PFR)
6787 M8 0600 (Tues 14 Sept) (GD2)
6787 M8 0700 (Sat 19 Sept) (GD2)
6787 M8 0700 (Sun 13 Sept) (GD2)
6787 M8 0800 (Mon 14 Sept) (GD2)
6787 M8 0800 (Thurs 17 Sept) (GD2)
6787 M8 0900 (Sun 13 Sept) (GD2)
6787 V2 AM 1000 ATTENTION 56203 32943 69903(Cont'd) (Female - SS
- Thursday) 17 Sep 98 (LBJ)
6792 Atencion loud and clear in Denver //weak on 4028 (LSB) at 0600
9/20/98. By the way, this was my first! (EDD) [welcome Erik.
keep those logs coming -Ary-]
6797 Atencion stn. V02 0515 (10/Sep) in progress (VM)
6797 M8 0700 (Fri 18 Sept) (GD2)
6797 M8 0700 (Tues 14 Sept) (GD2)
6797 M8 0800 (Sun 13 Sept) (GD2)
6797 V2 "Atencion". 0200z, Mon. 08/24. 5FG. (JL)
6797 V2 AM 0511z Thursday 10/09/98 in progress (PFR)
6810 M3 Thurs 9 Sept 1000 976/00 (GD2)

6813 TCS E05 2232 (02/Sep) in progress. End at 2233 (VM)
6825 M8 0200Z (1 Sept) CW stn with msgs UAWRA WNDDA TIUDD (BR)
6825 M8 0200Z (25 Aug) CW stn with msgs IADRN RTRMD MGTRN (BR)
6825 M8 1000 (Thurs 17 Sept) (GD2)
6825 M8 1000 (Wedn 15 Sept) (GD2)
6825 M8 1210Z (27 Aug) CW in progress (BR)
6825 M8 cut no's stn (9/17/98) 1215Z CW in progress (BR)
6825 M8 cut no's stn (9/22/98) 0200Z CW msgs MAIAN NAGUA WMINA (BR)
6825 M8 Cut no's stn 0200Z 9/15/98 CW msgs WUTGA RAGDA NDUUN (BR)
6825 M8 Cut no's stn 1210Z 9/10/98 CW in progress (BR)
6826 Atencion stn V2 0300Z 9/9/98 (BR)
6826 M8 1019 CW (In 5 ltr cut nrs - keyed carrier)(Tuesday) 15 Sep 98 (LBJ)
6827 M8 1008 CW (In 5 ltr cut nrs) AR(x3) GTTDN(x5) BT(x3) MTAWA WNGGD ...(Wednesday) 16 Sep 98 (LBJ)
6827 M8 Cut numbers 0708 (13/Sep) CW in progress (VM)
6840 Mossad (E10) 2131 (09-08-98) AM id EZI (DR)
6840 Mossad (E10) 2231 (12-08-98) AM id EZI group 35 (DR)
6840 Mossad (E10) 2233 (10-08-98) AM id EZI group 35 (DR)
6840 Mossad E10 1606z (sun 20 sept) USB YL/EE 5 letter groups (JD)
6840 Mossad E10 1606z (tue 22 sept) USB YL/EE 5 letter groups (JD)
6840 Mossad E10 2007z (sat 19 sept) USB YL/EE 5 letter groups (JD)
6853 Two Letter (G16) 2130 (18/Sep 98) USB ?????? 846 59 gruppen (DR)
6853 Two Letter (G16) 2134 (14/Sep 98) USB ?????? 740 87 gruppen (DR)
6854 M8 CW 0404z Thursday 10/09/98 in progress (PFR)
6855 M8 CW 0500z Tues 08/09/98 already in progress (PFR)
6856 Unid 1010 CW (In 5ltr cut nrs - Wednesday) 16 Sep 98 (LBJ)
6900 //10426//11545 LP (E3) 2001 (15-08-98) USB id 51114 (DR)
6900 //10426//11545 LP (E3) 2001 (29/Aug 98) USB id 51114 (DR)
6900 LP (E3) //10426//11545 2005 (19/Sep 98) USB id 20096 (DR)
6900 LP E3 //10426//11545 2000z (sat 19 sept) USB YL/EE 20096 (JD)
6920 M8 0700 (Thurs 17 Sept) (GD2)
6924 M51 0713 (27/aug) CW 5LG in progress (VM)
6925 M51 2119 (10/Sep) CW in progress (VM)
6933 M8 0800 (Tues 14 Sept) (GD2)
6935 M12 2005 (26/aug) CW ID 658 Ends at 2014 with 000 000 (VM)
6936 M13 0505 (10/Sep) CW ID 448 Preamble: 168 19 (VM)
6954 M51 0177 CW (In 5ltr tfc) BT NR 29 s 160318,24 1998 BT (Wednesday) 16 Sep 98 (LBJ)
6959 //10426//11545 LP (E3) 2202 (24/Aug 98) USB id 66269 (DR)
6959 //10426//11545 LP (E3) 2205 (10-08-98) USB id 94454 (DR)
6959 //8464//11545 LP (E3) 1700 (24/Aug 98) USB id 77350 (DR)
6959 //8464//11545 LP (E3) 1705 (10-08-98) USB id 41836 (DR)
6959 //9251//11545 LP (E3) 1800 (26/Aug 98) USB id 10118 (DR)
6959 //9251//11545 LP (E3) 1806 (12-08-98) USB id 47178 (DR)
6959 //9251//11545 LP (E3) 1900 (23/Aug 98) USB id 30394(DR)
6959 //9251//11545 LP (E3) 1900 (27/Aug 98) USB id 30394 (DR)
6959 //9251//11545 LP (E3) 1904 (11-08-98) USB id 15041 (DR)

6959 //9251//11545 LP (E3) 1905 (09-08-98) USB id 44340 (DR)
6959 //9251//11545 LP (E3) 1905 (13-08-98) USB id 15041 (DR)
6959 //9251//11545 LP (E3) 2000 (14-08-98) USB id 15041 (DR)
6959 //9251//11545 LP (E3) 2000 (28/Aug 98) USB id 30394 (DR)
6959 //9251//11545 LP (E3) 2001 (24/Aug 98) USB id 30394 (DR)
6959 //9251//11545 LP (E3) 2001 (27/Aug 98) USB id 10118 (DR)
6959 //9251//11545 LP (E3) 2002 (23/Aug 98) USB id 09807 (DR)
6959 //9251//11545 LP (E3) 2003 (12-08-98) USB id 15041 (DR)
6959 //9251//11545 LP (E3) 2003 (26/Aug 98) USB id 30394 (DR)
6959 //9251//11545 LP (E3) 2005 (10-08-98) USB id 44340 (DR)
6959 //9251//11545 LP (E3) 2007 (09-08-98) USB id 10881 (DR)
6959 //9251//11545 LP (E3) 2007 (13-08-98) USB id 47178 (DR)
6959 //9251//11545 LP (E3) 2100 (14-08-98) USB id 47178 (DR)
6959 //9251//11545 LP (E3) 2101 (29/Aug 98) USB id 30394 (DR)
6959 //9251//11545 LP (E3) 2102 (15-08-98) USB id 30394 (DR)
6959 //9251//11545 LP (E3) 2102 (28/Aug 98) USB id 10118 (DR)
6959 //9251//11545 LP (E3) 2103 (24/Aug 98) USB id 09807 (DR)
6959 //9251//11545 LP (E3) 2108 (10-08-98) USB id 10881 (DR)
6959 //9251//11545 LP (E3) 2200 (15-08-98) USB id 10118 (DR)
6959 //9251//11545 LP (E3) 2200 (29/Aug 98) USB id 10118 (DR)
6959 //9251//11545 LP (E3) 2207 (11-08-98) USB id 10881 (DR)
6959 //9251//12603 LP (E3) 2204 (25/Aug 98) USB id 09807 (DR)
6959 LP (E3) //10426//11545 2204 (14/Sep 98) USB id 26493 (DR)
6959 LP (E3) //8464//11545 1702 (14/Sep 98) USB id 80492 (DR)
6959 LP (E3) //9251//11545 1806 (16/Sep 98) USB id 24448 (DR)
6959 LP (E3) //9251//11545 1808 (17/Sep 98) USB id 93741 (DR)
6959 LP (E3) //9251//11545 1904 (15/Sep 98) USB id 93741 (DR)
6959 LP (E3) //9251//11545 1906 (13/Sep 98) USB id 42472 (DR)
6959 LP (E3) //9251//11545 2001 (18/Sep 98) USB id 93741 (DR)
6959 LP (E3) //9251//11545 2003 (14/Sep 98) USB id 42472 (DR)
6959 LP (E3) //9251//11545 2007 (13/Sep 98) USB id 54817 (DR)
6959 LP (E3) //9251//11545 2008 (17/Sep 98) USB id 24448 (DR)
6959 LP (E3) //9251//11545 2105 (18/Sep 98) USB id 24988 (DR)
6959 LP (E3) //9251//11545 2106 (19/Sep 98) USB id 93741 (DR)
6959 LP (E3) //9251//11545 2109 (14/Sep 98) USB id 54817 (DR)
6959 LP (E3) //9251//11545 2207 (15/Sep 98) USB id 62032 (DR)
6959 LP (E3) //9251//11545 2209 (19/Sep 98) USB id 24498 (DR)
6959 LP E3 //9251//11545 1901z (tue 22 sept) USB YL/EE 93741 (JD)
6959 LP E3 //9251//11545 1905z (thur 17 sept) USB YL/EE 93741 (JD)
6980 M51 2207 (26/aug) CW 5LG in progress (VM)
6982 M8 1200Z (25 Aug) CW stn with msgs MGTRN NDUJA MUATD (BR)
6982 M8 1200Z (31 Aug) CW stn with msgs TIUDD TWTGN NMWIA (BR)
6982 M8 1300Z (30 Aug) CW stn with msgs TIUDN TWTGA TDTWD (BR)
6982 M8 cut no's stn (9/20/98) 1300Z CW msgs TNADD WRMUA DUMWD
had keying problems - off and on air (BR)
6982 M8 cut no's stn (9/21/98) 1205Z CW in progress (BR)
6982 M8 Cut no's stn 1204Z 9/14/98 CW in progress (BR)
6983 Atencion stn V2 0200Z 9/11/98 AM (BR)

6983 Atencion V2. 0200z, Fri 09/18. Started early at 0149z ended at 0150z. Actual transmission at 0200z. Lost in noise at 0207z (JL)

6983 V2 "Atencion". 0200z, Fri. 08/21. Interference from adjacent broadcast. End with three "final". (JL)

6983 V2 AM SS/YL/5FG 02:00 UTC (28 Aug) ATENCION 11113 08111 38533 ATENCION 11113 08111 38533 THEN AT 02:04 ATENCION 34015 08111 38533(9x) THEN 34015(5x) (CC)

6984 V2??? 12193 AM 0203 12193 (Cont'd) 91844 ... (Female/SS - friday) 18 Sep 98 (LBJ)

6985 M8 0700 (Wedn 15 Sept) (GD2)

7250 Swedish Rhapsody (E23) 1201 (27/Aug 98) USB In progress (DR)

7250 Swedish Rhapsody (E23) 1205 (24/Aug 98) USB In progress (DR)

7337 //9251//12603 LP (E3) 1800 (24/Aug 98) USB id 88509 (DR)

7337 //9251//12603 LP (E3) 1804 (23/Aug 98) USB id 00180 (DR)

7337 //9251//12603 LP (E3) 1805 (09-08-98) USB id 41014 (DR)

7337 //9251//12603 LP (E3) 1808 (10-08-98) USB id 73233 (DR)

7337 //9251//12603 LP (E3) 1901 (24/Aug 98) USB id 00180 (DR)

7337 //9251//12603 LP (E3) 1905 (10-08-98) USB id 41014 (DR)

7337 //9251//12603 LP (E3) 2007 (11-08-98) USB id 73233 (DR)

7337 //9251//12603 LP (E3) 2101 (25/Aug 98) USB id 00180 (DR)

7337 //9251//12603 LP (E3) 2105 (11-08-98) USB id 41014 (DR)

7337 //9251//12603 LP (E3) 2107 (26/Aug 98) USB id 88509 (DR)

7337 //9251//12603 LP (E3) 2108 (12-08-98) USB id 73233 (DR)

7337 //9251//12603 LP (E3) 2205 (26/Aug 98) USB id 00180 (DR)

7337 //9251//12603 LP (E3) 2206 (12-08-98) USB id 41014 (DR)

7337 //9251//12603 LP (E3) 2207 (13-08-98) USB id 73233 (DR)

7337 //9251//12603 LP (E3) 2207 (27/Aug 98) USB id 88509 (DR)

7337 LP (E3) //9251//12603 1806 (14/Sep 98) USB id 06748 (DR)

7337 LP (E3) //9251//12603 1904 (14/Sep 98) USB id 39376 (DR)

7337 LP (E3) //9251//12603 2005 (15/Sep 98) USB id 85602 (DR)

7337 LP (E3) //9251//12603 2105 (15/Sep 98) USB id 59882 (DR)

7337 LP (E3) //9251//12603 2105 (16/Sep 98) USB id 85602 (DR)

7337 LP (E3) //9251//12603 2202 (17/Sep 98) USB id 85602 (DR)

7337 LP (E3) //9251//12603 2205 (16/Sep 98) USB id 59882 (DR)

7337 LP E3 //9251//12603 2001z (tue 22 sept) USB YL/EE 85602 (JD)

7337 LP E3 //9251//12603 2220z (thur 17 sept) USB YL/EE 5 figure groups (JD)

7390 M51 0532 (10/Sep) CW NR ?5 S 10 07:31:31 1998 BT (VM)

7482 V2 0404z Thursday 10/09/98 in progress - obscured by data xmn (PFR)

7484.5 Unid 1000 CW ragda wutga amuin (Cont'd)(OTA 0804Z) 14 Sep 98 (LBJ)

7525 Backwards Music Station/XM USB 1300 Thursday 9/3/98 (JM4)

7540 Mossad E10 1609z (tue 22 sept) USB YL/EE 5 letter groups (JD)

7555 V2 AM 0300 Sunday 8/30/98 Atencion YL/SS rptg "A 34016 60032 25502" and into 5FG. (JM4)

7580 M8 0900 (Thurs 17 Sept) (GD2)

7580 M8 1000 (Thurs 17 Sept) (GD2)
7581 M8 Cut numbers 0526 (10/Sep) CW in progress. Strong signal (VM)
7581 M8 CW 0511z Thursday 10/09/98 in progress (PFR)
7583 V2 "Atencion". 0200z, Wed. 08/26. 5FG. (JL)
7583 V2 1000 AM (Female/SS - 5fig tfc)(ACTUALLY 2 DIFFERENT NR STNS AT THE SAME TIME - ONE IN LSB AND ONE IN USB - ONE WEAK/ONE STRONG) (Monday) 14 Sep 98 (LBJ)
7583 V2 USB 0200 ATTENTION 83483 39693 41351 (Cont'd) (Female - SS - Wednesday) 16 Sep 98 (LBJ)
7584 M8 0200 CW AIRGA DDDWA TUAND (Cont'd) BT(x3) WNDGT ATMMA ... (Wednesday) 16 Sep 98 (LBJ)
7584 V22 05003 AM 1004 05003 (Cont'd) (Mon - female/SS - Can hear a second SS number stn on freq) 21 Sep 98 (LBJ)
7600 TCS (E5) //10597 1505 (18/Sep 98) USB id 851 count 196 (DR)
7605 S6 (tent) transmission with an Nil- msg at 8.21 UTC (23 Sept) "912 000 00" (LG)
7627 German Lady (G7) 1826 (18/Sep 98) AM id 167 562, 153, 562, 153, 000 000 ende at 1844 (DR)
7682 M8 Cut numbers 0505 (01/Sep) CW in progress (VM)
7682 M8 CW 0500z Tuesday 08/09/98 TDMAA ?????? already into groups before 0502z (PFR)
7725 M8 CW 0300z Thursday 10/09/98 ADIGN ???UN IAA?D loud buzz covering up signal (PFR)
7726 Atencion stn. V02 0515 (13/Sep) in progress (VM)
7740 Two Letter (G16) 2103 (26/Aug 98) USB id Golf Kilo x4 then tune (DR)
7740 Two Letter (G16) 2106 (19/Aug 98) USB? In progress (DR)
7755 //8464//10426 LP (E3) 1504 (11-08-98) USB id 04242 (DR)
7760 MOSSAD/E10 0100 Monday 9/14/98 YL/EE rptg ULX into 5LG. (JM4)
7760 Unid USB 0107 (In 5ltr code - female - EE)msg (x2) Group 26 (x2) Text (x2) SWIYC ... (0108Z)(Wednesday) 16 Sep 98 (LBJ)
7786 Atencion stn (V2) 2320 (27/aug) YL/SS 5FG in progress (VM)
7811 Mossad (E10) 1849 (23/aug) rptg CI02 (VM)
7846 M51 1102 CW mgdun ragdn rgdwd (Cont'd)(Keyed carrier) mgdun (x5) BT(x3) duirn ... (Tuesday) 15 Sep 98 (LBJ)
7846 M8 1103 CW DUUGN BT (x3) TTAAG WWUTU ...(Wedn) 16 Sep 98 (LBJ)
7846 M8 Cut no's stn 1110Z 9/9/98 CW in progress (BR)
7846 M8 Cut no's stn 1115Z 9/8/98 CW in progress (BR)
7858 Two Letter (G16) 1931 (13/Sep 98) USB ?? 740 87 gruppen (DR)
7887 V2 "Atencion". 0214z, Sun. 08/23. 5FG. In progress, end at 0240ish. (JL)
7887 V2 0200 Sunday 8/30/98 Atencion YL/SS rptg "A 34016 60032 25502" and into 5FG. (JM4)
7888 V2???? AM 0209 (In 5fig - female/SS - Sun) 20 Sep 98 (LBJ)
7889 M8 0115Z (1 Sept) CW stn in progress (BR)
7889 M8 cut no's stn (9/22/98) 0104 CW in progress (BR)
7889 M8 Cut no's stn 0100Z 9/15/98 CW msgs WUTGA RAGDA NDUUN (BR)
7889 M8 Cut no's stn 0100Z 9/8/98 CW msgs TUWNN GMWUD TMMWA (BR)

7918 E10 Mossad. 0200z, Fri. 08/21. Very weak, RST: 22. (JL)
7918 Mossad E10 1605z (sun 20 sept) USB YL/EE 5 letter groups (JD)
7918 Mossad E10 1608z (tue 22 sept) USB YL/EE 5 letter groups (JD)
7918 Mossad E10. 0203z, Tues 09/15. In progress. Very weak interference/jamming(?). "YHF". (JL)
7918 Mossad RC/USB 0200 Saturday 8/29/98 E10 YL/EE rptg "YHF" and into 5LG. (JM4)
7918 Mossad RC/USB 0200 Thursday 8/27/98 E10 YL/EE rptg YHF and into 5LG. (JM4)
7918 Mossad RC/USB Sun 8/30/98 E10 YL/EE rpt "YHF2" then down (JM4)
7920 Mossad (E10) 1804 (12-08-98) AM In progress (DR)
7946 Russian Man (S7) 2030 (18/Sep 98) AM id 3?? null msg (DR)
8010 Unid 0222 utc (28 Aug) AM YL/EE/5L ENGLISH YL WITH 5 LETTERS UNID XNSM (CC)
8010 unknown CW 1100 (In 5lg - thurs)(Extremely strong signal +40db - checked nearby freqs and found signals on 7980 (very weak) 7990 (weak) 8000(strong +20db) 8020 (strong +20db) 8030 (weak) 8040 (very weak) (Found the 8020 freq first - sending DUUGD DIRWN IIWWN (Cont'd)(Too bad all nr stn could be this strong) 17 Sep 98 (LBJ)
8043 M51 2210 CW (In 5 ltr tlc) BT NR 40 S .800... 1998 BT (Wedn) 16 Sep 98 (LBJ)
8057 Unid 2210 CW (In 5 ltr tlc - suspect diplomatic - Wedn) 16 Sep 98 (LBJ)
8065 M8 Cut numbers 0507 (13/Sep) CW in progress (VM)
8065? V2 USB 0611z Sunday 20/09/98 in progress - VERY faint; at times faded out completely. Seemed to be USB only. Not certain of exact frequency. NEW (PFR)
8066 M8 1100 CW MRDIN UWRRN IIWWD (Cont'd)(friday) 18 Sep 98 (LBJ)
8067 M8 1100 CW IRDTN RNAUD IIWWA (Cont'd)(Wedn 16 Sep 98 (LBJ)
8067 M8 1100 CW MAIAN IRDAD RAWIA (Cont'd) (Monday) 21 Sep 98 (LBJ)
8067 M8 1106 CW (In 5ltr cut numbers)(Monday)14 Sep 98 (LBJ)
8067 M8 Cut no's stn 1110Z 9/9/98 CW in progress (BR)
8067 M8 cut no's stn (9/21/98) 1115Z CW in progress (BR)
8124 //10423 TCS (E5) 2202 (09-08-98) AM/USB id 103 count 122 (DR)
8125 //10423 TCS (E5) 2200 (23/Aug 98) USB id 103 count 122 (DR)
8125 //10423 TCS (E5) 2203 (12-08-98) USB id 103 count 122 (DR)
8125 //10423 TCS (E5) 2207 (26/Aug 98) USB id 103 count 122 (DR)
8125 TCS (E5) //10423 2202 (16/Sep 98) USB id 006 count 85 (DR)
8125 TCS (E5) //10423 2207 (13/Sep 98) USB id 006 count 85 (DR)
8125 TCS E5 //10423 (9/20/98) 2200Z msg 006 count 85 (BR)
8125 TCS USB 2211 (In 5 fig code 3/2 female EE - Wedn - Suspect // to 10423 sked) 16 Sep 98 (LBJ)
8127 English Man (E7) 2031 (14/Sep 98) AM id 295 null msg (DR)
8127 Mossad E10 //10352 1912z (thur 17 sept) USB YL/EE VLB 2 (JD)
8127 Mossad E10 2309 (04/Sep) VLB2 until approx 0000 (VM)
8127 Mossad VLB2 0045 USB VLB2 (Saturday) 12 Sep 98 (LBJ)
8127 Mossad VLB2 0045 USB VLB2 Marker 7 Sep 98 (Monday)(LBJ)

8127 Mossad VLB2 2345 USB VLB2 (Monday) 14 Sep 98 (LBJ)
8127 Mossad VLB2 2345 USB VLB2 (Saturday) 12 Sep 98 (LBJ)
8127 Mossad VLB2 2345 USB VLB2 Marker 5 Sep 98 (Saturday)(LBJ)
8173 German two-letter (G16) 2145 (21/aug) USB YL/GG 3/2FG (x2) in progress (VM)
8177 M12 2108 (11/Sep) CW in progress (VM)
8187 M8 Cut no's stn 1115Z 9/12/98 CW in progress (BR)
8188 E23 Wed 26.08.98 0957 Swedish Rhapsody repeat of 0957 (HFD)
8188 Swedish Rhapsody (E23) 0958 (26/Aug 98) USB In progress (DR)
8231 M53 Tue 04.08.98 2100 vvv cq 747.129 (HFD)
8232 M53 1000 CW VVV CQ 747.531 (Cont'd) HR(x2) 18(x2) BT(x2) 67634 93947 ... (1005Z) AR(x2) (1007Z) RPT (x2) VVV CQ 747.531 (x2) (Rpt's msg) AR(x2) VA(x2) (OTA 1009Z) (Tuesday) 15 Sep 98 (LBJ)
8253 V2 374 AM 1000 ATTENTION 374 08 (Cont'd - female - SS - Wedn) 08 129 (cont'd) 08094 ... (1005Z) 16 Sep 98 (LBJ)
8300 //8375 1400z expected V13; only heard carriers but no xmn (PFR)
8300 V13 New Star 1200z Wedn 23/09/98 barely could make out; covered by digital xmn and another "ham" voice (PFR)
8375 New Star BC AM 1300 Thursday 8/27/98 V13 YL/CC 4FGx2. S9! (JM4)
8464 //10426//11545 LP (E3) 1600 (23/Aug 98) USB id 10118 (DR)
8464 //10462//11545 LP (E3) 1601 (09-08-98) USB id 41836 (DR)
8464 //12603//14487 LP (E3) 1606 (27/Aug 98) USB id 66269 (DR)
8464 //12603//14487 LP (E3) 1609 (13-08-98) USB id 94454 (DR)
8464 LP (E3) //12603//14487 1608 (17/Sep 98) USB id 79245 (DR)
8750 V2 979 AM 0404 (In 5fig - female/SS - Sun) FINALE (x2) atencion 979 06 (Cont'd) 0655 (x5) 32532 68915 20 Sep 98 (LBJ)
8909 Atencion stn. V02 0629 (15/Sep) in progress. Two "final" (VM)
8950 V2 AM 1006 (In 5fig code - Female - SS -Thursday)(Found to be side lob of 8975 - 728 04) 17 Sep 98 (LBJ)
8975 V2 728 AM 1007 (In 5 fig code) atencion 728 04 (Cont'd) 04 91 (x5) 66598 87823 ... (1010Z)(Second female/SS number station on freq - weak but copiable - different msg being sent)(Thurs) 17 Sep 98 (LBJ)
9060 Russian Man (S7) 2030 (15/Sep 98) AM id 840 null msg fin at 2035 (DR)
9125 German Lady (G7) 1800 (18/Sep 98) AM id 167 562, 153, 562, 153, 000 000 ende at 1821 (DR)
9125 German Lady (G7) 1821 (28/Aug 98) AM id 213 key 502 group count 78 (DR)
9130 Mossad 2100 USB (too weak to copy)(Friday) 11 Sep 98 (LBJ)
9130 Mossad 2105 USB (In 5 ltr tfc)(Monday) 14 Sep 98 (LBJ)
9130 Mossad E10 1604z (sun 20 sept) USB YL/EE 5 letter groups (JD)
9130 Mossad E10 1607z (tue 22 sept) USB YL/EE 5 letter groups (JD)
9130 Mossad E10 2008z (sat 19 sept) USB YL/EE 5 letter groups (JD)
9130 Mossad EZI2 2200 USB EZI2 (Cont'd) (Wednesday) 9 Sep 98 (LBJ)
9130 Mossad EZI2 2200 USB EZI2 (Friday) 11 Sep 98 (LBJ)
9130 Mossad EZI2 2200 USB EZI2 Marker 5 Sep 98 (Saturday)(LBJ)
9130 Mossad EZI2 2201 USB EZI2 (Monday)14 Sep 98 (LBJ)

9130 MOSSAD/E10 0100 Monday 9/14/98 YL/EE rptg EZI into 5LG. (JM4)
 9130 Mossas EZI 2103 USB EZI (Cont'd) (Wednesday) 9 Sep 98 (LBJ)
 9165 M10 Tues 8 Sept 1710 555x3 752x3 102 487x3 40 Note Long Msg
 9180 Unid 2330 (17 Sept) still on-going at 0000z usb SS stn and
 more. Use Carlos in place of Charlie. Good signal. (CT)
 9226 XPH Fri 21.08.98 0600 Polytone, 0620 10426, 0640 12126 (HFD)
 9226 XPH Wed 26.08.98 0600 Polytone, 0620 10426, 0640 12126 (HFD)
 9230 V2? 1011 AM (Female/SS - 5fig tfc) FINALE (x2)(0812Z) atencion
 979 04 711 03 (Cont'd) 04 54 (Cont'd) 85423 (Mon) 14 Sep (LBJ)
 9238 V2 AM 1000 atencion 979 04 711 03 (Cont'd) (Mon - female/SS)
 21 Sep 98 (LBJ)
 9251 LP (E3) //7337//12603 1807 (13/Sep 98) USB id 39376 (DR)
 9251 LP 06748 2100 USB 06748 (Cont'd)(Wednesday) 9 Sep 98 (LBJ)
 9251 LP 2100 USB (too weak to copy callup)(Friday) 11 Sep 98 (LBJ)
 9251 LP 2106 USB (too weak to copy)(Monday) 14 Sep 98 (LBJ)
 9251 LP 24448 USB 2202 //6959//11545 (Sat) 19 Sep (LBJ)
 9251 LP 31663 USB 2205 (Fri) 18 Sep 98 (LBJ)
 9251 LP 39376 2104 USB (Female/EE) 19166 56850 (Tues) 8 Sep 98 (LBJ)
 9251 LP 596.. USB 2100 (- very weak - Tuesday) 15 Sep 98 (LBJ)
 9251 LP 80492 2200 USB (Friday) 11 Sep 98 (LBJ)
 9251 LP 85602 USB 2100 (female - EE - Wednesday) 16 Sep 98 (LBJ)
 9251 LP 87483 2200 USB (Female/EE)(Tuesday) 8 Sep 98 (LBJ)
 9251 LP USB 2100 (too weak to copy) (Fri) 18 Sep 98 (LBJ)
 9251 LP USB 2200 (too weak to copy - Tuesday 15 Sep 98 (LBJ)
 9260 V2 "Atencion". 0200z, Wed. 08/26. 5FG. Weak signal, RST: 33.
 very muffled and hummy transmission. Ended at 0210z with two
 "final". (JL)
 9260 V2 AM 0200 Thursday 8/27/98 Atencion (old version) YL/SS 5FG
 in progress; then "238 03" and "03 48" and into 5FG. Two final,
 then "238 03" and "03 48" and back into 5FG. Down at :17 w/two
 final. Note new day. (JM4)
 9329.5 M8 CW ANDUWRIGMT 1200 Wednesday 9/16/98 5F/L/G. (JM4)
 9337 Russian man S07 0551 (13/Sep) in progress (VM)
 9403 M24 0809 (13/Sep) CW in progress Ended at 0821 with == 572 572
 133 133 0 0 0 0 0 (VM)
 9468 Atencion stn. V02 0724 (13/Sep) CW in progress (VM)
 10065 B2T unknown 0210 CW (In 5ltr code)QRA B2T gr 35 BT BQXST ...
 (Monday)(Finished 0214Z) P7X de B2T 14 Sep 98 (LBJ)
 10129 V2 "Atencion". 0000z, Sat. 08/22. 5FG. Interfered with by RTTY
 in progress before beginning of transmission. (JL)
 10177 Two letter station G16 1904z (tue 22 sept) USB YL/GG electronic
 tune and repeating of "WL" several times. Groups of numbers in
 German then followed. (JD)
 10223 // 13518 Count stn E5 Sep2 1200 msg 408 count 215 (BR)
 10223 // 13518 TCS 1200Z TCS (26 Aug) E5 - msg 343 count 215 (BR)
 10223 //13518 TCS (E5) 1203 (2/Sep 98) USB id 408 count 215 (DR)
 10223 E5 1200z Wednesday 23/09/98 909 (3x) Count repeated - then beeps
 Count 215 (2x) and into 3/2FGs (PFR)

10223 E5 Cynthia. 1200z, Sat. 08/22. Preamble: 343 Count: 215 3/2FG. //13518, beeps still going intermittently until 1205z. Both transmissions "end" 1250z. (JL)

10223 E5 TCS. 1200z, Wed. 08/26. Preamble: 343 Count: 215 3/2FG. "End" at 1250z. (JL)

10223 E5 TCS. Wednesday 09/02, 1200z. Tone 1158z until 1159z. Beeps at 1157z with what sounded like music; had a sing song quality to it like wind blowing through metal pipes. Preamble: 408 Count: 215 3/2FG. Repeat count at 1230z. Drowned out at 1240z by the "pipes" and back with count at 1245z. (JL)

10223 TCS (E5) //13518 1203 (19/Sep 98) USB id 909 count 215 (DR)

10223 TCS (E5) //13518 1207 (16/Sep 98) USB id 408 count 215 (DR)

10223 TCS //13518 (E5) 1200 (12/Sep 98) USB id 408 count 215 (DR)

10223 TCS //13518 (E5) 1204 (9/Sep 98) USB id 408 count 215 (DR)

10223 TCS //13518 E5 1200Z 9/12/98 msg 408 count 215 (BR)

10223 TCS //13518 E5 1200Z 9/9/98 AM msg 408 count 215 (BR)

10223 TCS E5 //13518 (9/16/98) 1215Z in progress (BR)

10223 TCS E5. 1200z, Wed 09/16. 1155z long tone into beeps at 1156z. Preamble: 408 Count: 215 3/2FG. Repeat count at 1230z. "end" 1250z. (JL)

10223 TCS, E5. 1200z, Wed. 09/09. 1159z tone till 1200z into preamble Preamble: 408 Count: 215 3/2FG. Transmission had a sing song quality to it in the background. Repeat count at 1230z, and "end" at 1250z. (JL)

10223 TCS/E5 //13518 1200 Wednesday 9/16/98 YL/EE rptg 408 Count 215 3/2FG. (JM4)

10225 German Lady (G7) 1802 (14-08-98) AM 213 (DR)

10227 German Lady (G7) 1800 (28/Aug 98) AM id 213 key 502 group count 78 ende at 1813 (DR)

10233 E5 1200 408 Count 215 //14739 (Wedn 15 Sept) (GD2)

10233 TCS E5. 1200z, Sat 09/19. No pre-beeps/tones. Preamble: 909 Count 215 3/2FG. (JL)

10248 8BY French Intel stn 0445 UTC CW with VVV DE 8BY (1/Sept) (IJ)

10257 //12197 TCS (E5) 2001 (30/Aug 98) USB id 508 count 185 (DR)

10263 //12150 TCS (E5) 2106 (2/Sep 98) USB id 660 count 172 (DR)

10263 TCS (E5) //12150 2106 (16/Sep 98) USB id 154 (DR)

10263 TCS (E5) //12150 2107 (13/Sep 98) USB id 660 count 172 (DR)

10263 TCS // 12150 E5 2115Z 9/6/98 AM in progress (BR)

10263 TCS //12150 (E5) 2102 (6/Sep 98) USB id 660 count 172 (DR)

10327 English Man (E7) 2000 (14/Sep 98) AM id 319 null message format ended at 2005 (DR)

10327 English Man (E7) 2000 (7/Sep 98) AM id 319 null message format (DR)

10327 English Man (E7) 2002 (2/Sep 98) AM id 319 null message format (DR)

10352 Mossad 19h50utc (2 Sept) female EE VLB (TA)

10423 //12197 Counting Station (E5) 2004 (3/Sep 98) USB id 895 count 205 (DR)

10423 //12197 TCS (E5) 1701 (3/Sep 98) USB id 895 count 205 (DR)
10423 //12197 TCS (E5) 2001 (27/Aug 98) USB id 895 count 205 (DR)
10423 //12197 TCS (E5) 2001 (31/Aug 98) USB id 895 count 205 (DR)
10423 //12197 TCS (E5) 2002 (10-08-98) USB id 642 count 41 (DR)
10423 //12197 TCS (E5) 2002 (24/Aug 98) USB id 895 count 205 (DR)
10423 TCS (E5) //12197 2002 (14/Sep 98) USB id 895 count 205 (DR)
10423 TCS (E5) //12197 2002 (17/Sep 98) USB id 895 count 205 (DR)
10423 TCS (E5) 2002 (13-08-98) USB id 642 count 41 (DR)
10423 TCS //12197 (E5) 2006 (10/Sep 98) USB id 895 count 205 (DR)
10423 TCS //12197 (E5) 2006 (7/Sep 98) USB id 895 count 205 (DR)
10423 TCS 006 2200 USB 006(x3)1234567890 (Cont'd) (Female/EE)
(Wedn) Dashes(x10)(2210Z) 764 46 47931 ...(3/2) 9 Sep 98 (LBJ)
10423 TCS 006 USB 2200 006 (x3) 1234567890 (Cont'd - female - EE -
Wednesday) 16 Sep 98 (LBJ)
10423 TCS E05 2222 (02/Sep) in progress. End at 2233 (VM)
10426 //11545//14487 LP (E3) 1400 (5/Sep 98) USB id 80492 (DR)
10426 //12603//14487 LP (E3) 1400 (24/Aug 98) USB id 73110 (DR)
10426 //12603//14487 LP (E3) 1400 (31/Aug 98) USB id 73110 (DR)
10426 //12603//14487 LP (E3) 1407 (10-08-98) USB id 04242 (DR)
10426 LP (E3) //11545//14487 1405 (19/Sep 98) USB id 31663 (DR)
10426 LP (E3) //12603//14487 1404 (14/Sep 98) USB id 27249 (DR)
10426 LP (E3) //14487 1400 Monday 9/14/98 5FGx2 in progress -
extremely weak. (JM4)
10426 LP //12603//14487 (E3) 1400 (7/Sep 98) USB id 27249 (DR)
10426 LP 07222 unknown 2007 USB // to 11545 5 Sep 98 (Saturday)(LBJ)
10426 LP E3 //11545//8464 1602z (sun 20 sept) USB YL/EE 31663 (JD)
10527 //12197 TCS (E5) 2000 (28/Aug 98) USB id 508 count 185 (DR)
10527 //12197 TCS (E5) 2000 (4/Sep 98) USB id 508 count 185 (DR)
10527 //12197 TCS (E5) 2003 (23/Aug 98) USB id 508 count 185 (DR)
10527 TCS (E5) //12197 2000 (18/Sep 98) USB id 460 count 127 (DR)
10527 TCS (E5) //12197 2006 (13/Sep 98) USB id 508 count 185 (DR)
10527 TCS (E5) 2001 (09-08-98) USB id 908 count 74 (DR)
10527 TCS (E5) 2007 (23/aug) USB ID 458 Count 185 (VM)
10527 TCS //12197 (E5) 2000 (11/Sep 98) USB id 508 count 185 (DR)
10527 TCS //12197 (E5) 2004 (6/Sep 98) USB id 508 count 185 (DR)
10527 TCS 460 USB 2000 460 (x3) 1234567890 (Cont'd) 20 Sep 98 (LBJ)
10527 TCS E5 //12197 (9/20/98) 2000Z msg 460 count 125 (BR)
10529 // 14739 Count stn E5 Sep4 1300 AM with msg 430 (BR)
10529 E05 Fri 14.08.98 1300 TCS, 973 (HFD)
10529 E5 1300 (Fri 11 Sept) 430 Count 215 /14739 (GD2)
10529 E5 1300 430 Count ?? // 10423 (Tues 14 Sept) (GD2)
10529 E5 TCS. 1300z, Fri. 08/21. Preamble: 973 Count: 215. (JL)
10529 E5 TCS. 1300z, Tue. 08/25. At 1212z high pitched tone into
beeps at 1213z. Started late at 1304z. Preamble: 973 (JL)
10529 E5 TCS. Friday 8/28, 1300z. Very weak, RST: 22. Preamble:
973 Count: ??? (JL)
10529 TCS (E5) //14739 1304 (18/Sep 98) USB id 430 (DR)
10529 TCS (E5) 1303 (8/Sep 98) USB id 430? count 215 very weak (DR)

10529 TCS (E5) 1308 (11/Sep 98) USB id 430 count 215 (DR)
 10529 TCS E5. 1300z, Tues 09/15. 1249z, beeps in progress. Preamble
 430 Count: 215 3/2FG. (JL)
 10529 TCS RC/USB 1300 Friday 9/4/98 E5 YL/EE rptg 430 Count 215
 3/2FG. (JM4)
 10529 TCS, E5. 1300z, Fri. 09/04. 1255z beeps in progress. Preamble
 430 Count: 215 3/2FG. (JL)
 10565 Cut no's stn M8 Sep6 1300 CW msgs GGAAA GMUWD DTWWN (BR)
 10566 Cut no's stn M8 Sep4 1304 CW in progress (BR)
 10566 M51 1304 CW (In 5 ltr cur nrs) (Monday) 7 Sep 98 (LBJ)
 10566 M58 1302 CW (In 5 ltr cut nrs) GGAAA GMUWD DTWWN ... BT (x3)
 IGIAA MMIIA ... (Sunday) 6 Sep 98 (LBJ)
 10566 M8 1300Z (30 Aug) CW stn with msgs IUARA NDWAN TADRA (BR)
 10566 M8 1302 CW TNWRD MNMUN MNRDA (Cont'd) Sun) BT (x3) NDRNM GMTRR
 ... (1304Z) 20 Sep 98 (LBJ)
 10566 M8 cut no's stn (9/20/98) 1300Z CW msgs TNWRD MNMUN MNRDA (BR)
 10566 M8 CW 1309z Sunday 20/09/98 in progress (PFR)
 10583 //12175 TCS (E5) 2100 (1/Sep 98) USB id 042 count 194 (DR)
 10583 //12175 TCS (E5) 2100 (29/Aug 98) USB id 042 count 194 (DR)
 10583 TCS (E5) 2117 (22/aug) USB YL/EE 3/2FG in progress (VM)
 10597 TCS (E5) 1500 (8/Sep 98) USB id 851 count 196 (DR)
 10597 TCS (E5) 1502 (11/Sep 98) USB id 851 count 196 (DR)
 10597 TCS (E5) 1503 (1/Sep 98) USB id 851 count 196 (DR)
 10597 TCS (E5) 1503 (14-08-98) USB id 851 count 196 (DR)
 10597 TCS (E5) 1503 (28/Aug 98) USB id 851 count ?? bearily audible
 (DR)
 10625 Unid 2208 CW (in 5fig tfc) (t=0)(6 wpm)(Monday) BT 16821 BT
 15964 99036 ... (2212Z) 14 sEP 98 (LBJ)
 10642 Czech Man 'Control' (S19) 1305 (1/Sep 98) USB ended 1323 (DR)
 10642 Czech Man 'Control' (S19) 1306 (30/Aug 98) USB ended 1321 (DR)
 10642 Slovak Station, 1300 (28 Aug) (AB2) -is S19 Andy-
 10647 Mossad (E10) 1802 (12-08-98) AM id YHF group 52 (DR)
 10648 Mossad (E10) 1602 (09-08-98) AM id YHF (DR)
 10648 Mossad E10 1604z (sun 20 sept) USB YL/EE YHF (JD)
 10648 Mossad E10 1607z (tue 22 sept) USB YL/EE 5 letter groups (JD)
 10656 Polytone Station (XPH) 2001 (1/Sep 98) AM gone at 2006
 10688 M51 2107 CW (In 5 ltr tfc) BT NR 29 s 1623 .8 82 1998 BT ZXORW
 ...Wednesday) 16 Sep 98 (LBJ)
 10692.5 P7X 1305 (CW Data Bursts) QRA DE P7X -P- 071300Z GR 120 BT
 DUNZE GQNDV ... (Monday) 7 Sep 98 (LBJ)
 10693 P7X 1340 CW QRA DE P7X (5 letter code) BT AR (OTA 1343Z)
 (10 WPM) (Copied again at 1505/1603/1805/1832/1902 and 1918Z
 (Saturday) 5 Sep 98 (LBJ)
 10822 Unid 2145Z (23 Aug) CW in progress using T for 0 abt 25 wpm
 5 FIG x2. ended at 2202Z with 746 746 153 153 T T T T T (BR)
 10857 M8 1200 (Tues 14 Sept) (GD2)
 10858 Cut no's stn M8 Sep3 1203 CW in progress (BR)
 10858 M8 1200Z (1 Sept) CW stn with msgs IUARD TRWGA TADRD (BR)

10858 M8 1210Z (27 Aug) CW in progress (BR)
 10858 M8 1215Z (25 Aug) CW in progress (BR)
 10858 M8 cut no's stn (9/15/98) 1204Z in progress - hum on sig (BR)
 10858 M8 cut no's stn (9/17/98) 1215Z CW in progress (BR)
 10858 M8 cut no's stn (9/22/98) 1200Z CW msgs RAWRN UTAA MNRDD (BR)
 10858 M8 Cut no's stn 1210Z 9/10/98 CW in progress (BR)
 10858 M8 cut no's stn 1210Z 9/8/98 CW in progress (BR)
 10858.5 M8 CW 1200 Thursday 8/27/98 ANDUWRIGMT 5F/L/G in progress.
 Down at :36 w/AR AR AR SK SK SK. (JM4)
 10975 //12229 TCS (E5) 2101 (13-08-98) USB id 071 count 104 (DR)
 10976 //12229 TCS (E5) 2101 (10-08-98) USB id 071 count 104 (DR)
 11000 E15 Wed 12.08.98 1300 Phon. Alphabet (pre Nato) BEC QRU (HFD)
 11072 // 13444 Count stn E5 Sep5 1800 AM (BR)
 11072 //13444 TCS (E5) 1800 (29/Aug 98) USB id 035 count 136 (DR)
 11072 //13444 TCS (E5) 1800 (31/Aug 98) USB id 035 count 136 (DR)
 11072 //13444 TCS (E5) 1802 (5/Sep 98) USB id 035 count 136 (DR)
 11072 //13444 TCS (E5) 1803 (24/Aug 98) USB id 035 count 136 (DR)
 11072 E5 1800 (Monday 7 Sept) 035 Count 136 //13444 (GD2)
 11072 TCS (E5) //13444 1803 (14/Sep 98) USB id 633 count 113 (DR)
 11072 TCS (E5) //13444 1805 (19/Sep 98) USB id 633 count 113 (DR)
 11072 TCS (E5) 1803 (10-08-98) USB id 035 count 136 (DR)
 11072 TCS // 13444 E5 1800Z 9/7/98 AM with msg 035 count 136 (BR)
 11072 TCS //13444 (E5) 1800 (12/Sep 98) USB id 633 (DR)
 11072 TCS //13444 (E5) 1806 (7/Sep 98) USB id 035 count 136 (DR)
 11072 TCS E5 //13444 1807z (sat 19 sept) USB YL/EE id 633 count
 113 (JD)
 11107 English Man (E6) 0220 (4/Sep 98) AM In progress ended 562x2
 138x2 00000 at 0228 (DR)
 11108 unknown AM 0208 (In 5fig code - female/EE -Friday - QSZ)
 18 Sep 98 (LBJ)
 11108 unknown AM 0212 (In 5 fig tfc - QSZ - Female - EE -Thursday)
 76148 88889 562 (x2) 138 (x2 00000 (OTA 0229Z) 17 Sep 98 (LBJ)
 11147 M12, 06.10 (Aug 15) CW 484 484 484 000 (R5) (AB)
 11270 Russian Man 'control' (S25) 0820 (24/Aug 98) AM id 615 decent
 signal (DR)
 11270 Russian man control S25 0835z (mon 14 sept) USB OM/EE with
 615 615 615 43785 (JD)
 11430 New Star Broadcasting/V13 1300 Sat 9/5/98 YL/CC 4FGx2. (JM4)
 11440 TCS E05 2217 (02/Sep) in progress. End at 2241 (VM)
 11454 Russian Man (S7) 2000 (24/Aug 98) AM id 742 null message (DR)
 11454 Russian Man (S7) 2000 (31/Aug 98) AM id 742 null message (DR)
 11491 // 13450 Count stn E5 Sep5 1900 AM msg 811 count 111 (BR)
 11491 //13450 TCS (E5) 1900 (29/Aug 98) USB id 614 count 108 (DR)
 11491 //13450 TCS (E5) 1900 (5/Sep 98) USB id 811 count 111 (DR)
 11491 //13450 TCS (E5) 1903 (12-08-98) USB id 200 count 74 (DR)
 11491 //13450 TCS (E5) 1904 (2/Sep 98) USB id 811 (DR)
 11491 //13450 TCS (E5) 1907 (15-08-98) USB id 200 count 74 (DR)
 11491 TCS (E5) //13450 1905 (19/Sep 98) USB id 322 count 79 (DR)

11491 TCS //13450 (E5) 1905 (9/Sep 98) USB id 811 count 111 (DR)
 11491 TCS 322 1901 USB 322(x3) 1234567890 (Dashes x10)Count 79(x2)
 16799 24017 ...(3/2)(Female (Saturday) 12 Sep 98 (LBJ)
 11491 TCS E5 //13450 1905 (sat 19 sept) USB YL/EE id 322 count
 79 (JD)
 11545 //12603//13375 LP (E3) 1500 (14-08-98) USB id 41014 (DR)
 11545 //12603//13375 LP (E3) 1500 (23/Aug 98) USB id 10118 (DR)
 11545 //12603//13375 LP (E3) 1500 (5/Sep 98) USB id 06748 (DR)
 11545 //12603//13375 LP (E3) 1501 (09-08-98) USB id 47178 (DR)
 11545 //12603//13375 LP (E3) 1502 (27/Aug 98) USB id 09807 (DR)
 11545 //12603//13375 LP (E3) 1503 (28/Aug 98) USB id 00180 (DR)
 11545 //12603//13375 LP (E3) 1503 (3/Sep 98) USB id 24189 (DR)
 11545 //12603//13375 LP (E3) 1503 (30/Aug 98) USB id 10118 (DR)
 11545 //12603//13375 LP (E3) 1508 (13-08-98) USB id 10881 (DR)
 11545 //12603//13375 LP (E3) 1600 (14-08-98) USB id 10881 (DR)
 11545 //12603//13375 LP (E3) 1600 (24/Aug 98) USB id 10118 (DR)
 11545 //12603//13375 LP (E3) 1600 (28/Aug 98) USB id 09807 (DR)
 11545 //12603//13375 LP (E3) 1601 (5/Sep 98) USB id 39376 (DR)
 11545 //12603//13375 LP (E3) 1603 (31/Aug 98) USB id 10118 (DR)
 11545 //12603//13375 LP (E3) 1603 (4/Sep 98) USB id 87483 (DR)
 11545 //12603//13375 LP (E3) 1605 (10-08-98) USB id 47178 (DR)
 11545 //12603//13375 LP (E3) 1700 (1/Sep 98) USB id 87144 (DR)
 11545 //12603//13375 LP (E3) 1700 (15-08-98) USB id 09807 (DR)
 11545 //12603//13375 LP (E3) 1700 (25/Aug 98) USB id 10118 (DR)
 11545 //12603//13375 LP (E3) 1700 (30/Aug 98) USB id 88509 (DR)
 11545 //12603//13375 LP (E3) 1700 (5/Sep 98) USB id 87483 (DR)
 11545 //12603//13375 LP (E3) 1701 (23/Aug 98) USB id 88509 (DR)
 11545 //12603//13375 LP (E3) 1704 (09-08-98) USB id 73233 (DR)
 11545 //12603//13375 LP (E3) 1704 (29/Aug 98) USB id 09807 (DR)
 11545 //12603//13375 LP (E3) 1705 (11-08-98) USB id 47178 (DR)
 11545 //13375//15682 LP (E3) 1500 (24/Aug 98) USB id 51114 (DR)
 11545 //13375//15682 LP (E3) 1500 (31/Aug 98) USB id 51114 (DR)
 11545 //13375//15682 LP (E3) 1508 (10-08-98) USB id 10809 (DR)
 11545 //13375//15682 LP (E3) 1600 (1/Sep 98) USB id 07222 (DR)
 11545 //13375//15682 LP (E3) 1606 (11-08-98) USB id 10809 (DR)
 11545 //13375//15682 LP (E3) 1900 (28/Aug 98) USB id 51114 (DR)
 11545 //13375//15682 LP (E3) 1901 (4/Sep 98) USB id 07222 (DR)
 11545 //13375//15682 LP (E3) 1909 (14-08-98) USB id 10809 (DR)
 11545 //13375//16084 LP (E3) 1700 (14-08-98) USB id 94454 (DR)
 11545 //13375//16084 LP (E3) 1700 (28/Aug 98) USB id 66269 (DR)
 11545 //13375//16084 LP (E3) 1702 (4/Sep 98) USB id 26493 (DR)
 11545 //13375//16084 LP (E3) 1800 (15-08-98) USB id 66269 (DR)
 11545 //13375//16084 LP (E3) 1801 (5/Sep 98) USB id 26493 (DR)
 11545 //13375//16084 LP (E3) 1802 (29/Aug 98) USB id 66269 (DR)
 11545 //14487//15682 LP (E3) 1400 (30/Aug 98) USB id 51114 (DR)
 11545 //14487//16084 LP (E3) 1508 (26/Aug 98) USB id 66269 (DR)
 11545 //15682//16084 LP (E3) 1506 (12-08-98) USB id 94454 (DR)
 11545 E3 //13375 USB 1509z Sun 20/09/98 very faint (PFR)

11545 LP (E3) //12603//13375 1504 (18/Sep 98) USB id 59882 (DR)
11545 LP (E3) //12603//13375 1505 (19/Sep 98) USB id 85602 (DR)
11545 LP (E3) //12603//13375 1506 (17/Sep 98) USB id 62032 (DR)
11545 LP (E3) //12603//13375 1605 (14/Sep 98) USB id 31355 (DR)
11545 LP (E3) //12603//13375 1702 (15/Sep 98) USB id 24448 (DR)
11545 LP (E3) //12603//13375 1705 (13/Sep 98) USB id 06748 (DR)
11545 LP (E3) //12603//13375 1705 (19/Sep 98) USB id 62032 (DR)
11545 LP (E3) //13375//15682 1505 (14/Sep 98) USB id 07222 (DR)
11545 LP (E3) //13375//15682 1605 (15/Sep 98) USB id 20096 (DR)
11545 LP (E3) //13375//15682 1905 (18/Sep 98) USB id 20096 (DR)
11545 LP (E3) //13375//16084 1700 (18/Sep 98) USB id 79245 (DR)
11545 LP (E3) //13375//16084 1805 (19/Sep 98) USB id 79245 (DR)
11545 LP (E3) //14487//16084 1504 (16/Sep 98) USB id 79245 (DR)
11545 LP //12603//13375 (E3) 1500 (10/Sep 98) USB id 54817 (DR)
11545 LP //12603//13375 (E3) 1501 (11/Sep 98) USB id 39376 (DR)
11545 LP //12603//13375 (E3) 1600 (11/Sep 98) USB id 54817 (DR)
11545 LP //12603//13375 (E3) 1600 (7/Sep 98) USB id 31355 (DR)
11545 LP //12603//13375 (E3) 1700 (12/Sep 98) USB id 54817 (DR)
11545 LP //12603//13375 (E3) 1705 (6/Sep 98) USB id 06748 (DR)
11545 LP //13375//15682 (E3) 1500 (7/Sep 98) USB id 07222 (DR)
11545 LP //13375//15682 (E3) 1601 (8/Sep 98) USB id 07222 (DR)
11545 LP //13375//15682 (E3) 1904 (11/Sep 98) USB id 07222 (DR)
11545 LP //13375//16084 (E3) 1700 (11/Sep 98) USB id 26493 (DR)
11545 LP //14487//16084 (E3) 1500 (9/Sep 98) USB id 26493 (DR)
11545 LP //14487//16475 (E3) 1700 (8/Sep 98) USB id 31355 (DR)
11545 LP 07222 unknown 2003 USB (Music) 07222 (repeated)(Female/EE)
(Tones and into tfc at 2010Z) 14489 41689 ...(Sat)(//10426)
5 Sep 98 (LBJ)
11545 LP E3 //12603//13375 1711z (tue 22 sept) USB YL/EE 5fg (JD)
11545 LP E3 //13375//15682 1604z (tue 22 sept) USB YL/EE 20096 (JD)
11545 LP E3 //13375//16084 1806z (sat 19 sept) USB YL/EE 79245 (JD)
11545 LP E3 1903 (Fri 11 sept) USB YL/EE id 07222 //13375 (JD)
11565 E10 Wed 26.08.98 0600 Phon. Alphabet (NATO) EZI //13533 (HFD)
11565 EZI (Mossad) 1443 9/14/98 calling out phoentic letters
very weak.(CT)
11565 Mossad (E10) 1907 (15-08-98) AM In progress (DR)
11565 Mossad E10 1911 (Fri 11 sept) USB YL/EE 5 letter groups (JD)
11565 Mossad E10 1912 (Sun 13 sept) USB YL/EE 5 letter groups (JD)
11565 Mossad E10 1914z (thur 17 sept) USB YL/EE 5 letter groups (JD)
11565 Mossad, E10. 0105z, Wed. 09/09, barely audible. (JL)
11565 MOSSAD/E10 0100 Monday 9/14/98 YL/EE rptg EZI into 5LG. (JM4)
11565 MOSSAD/E10 0100 Sunday 9/13/98 YL/EE rptg EZI w/two minute
message.(JM4)
11580 E5 0900 685 Count 196 //14665 (Sun 13 Sept) (GD2)
11580 TCS (E5) 0913 (23/aug) YL/EE 3/2FG in progress. Count 196 (VM)
11637 FAPSI 0045Z (27 Aug) GMN M42 RTTY stn with 46's and no traffic
Carrier came on pretty late for them (at 0042) but was preceeded
by several short high speed data bursts prior to 0040 (BR)

12130 English Man (E6) 1405 (12-08-98) AM Missed id ended 830 830 71
71 00000 (DR)
12130 English Man (E6) 1407 (13-08-98) AM Missed id ended 830 830 71
71 00000 as 12-08-98 (DR)
12150 TCS (E5) 2100 (12-08-98) USB id 169 count 174 (DR)
12150 TCS (E5) 2102 (30/Aug 98) USB id 364 count 147 (DR)
12150 TCS (E5) 2103 (23/Aug 98) USB id 364 count 147 (DR)
12150 TCS (E5) 2108 (26/Aug 98) USB id 364 count inaudible (DR)
12150 TCS //10263 (E5) 2105 (9/Sep 98) USB id 660 count 172 (DR)
12150 TCS, 21.30 (Aug 16) AM in progress (AB)
12150 Very strong carrier-sweep jammer, 06.50 (Aug 15) (AB)
12157 E5 2000 895 Count 205 //10423 (Thurs 17 Sept) (GD2)
12171 English Man (E6) 2000 (12-08-98) AM 174 174 174 000 until
2005 tx off at 2007 (DR)
12175 TCS (E5) 1403 (11-08-98) USB id 368 count 86 (DR)
12175 TCS (E5) 1405 (12-08-98) USB id 368 count 86 (DR)
12175 TCS (E5) 2102 (11-08-98) USB id 042 count 194 (DR)
12175 TCS (E5) 2102 (25/Aug 98) USB id 042 (DR)
12197 E5 2000 (Monday 7 Sept) 895 Count 205 //10423 (GD2)
12197 E5 2000 (Thurs 10 Sept) 895 Count 205 //10423 (GD2)
12197 E5 2000 460 count 127 //10527 (Fri 18 Sept) (GD2)
12197 E5 2000 508 count 185 //10527 (Sun 13 Sept) (GD2)
12197 TCS E5 2000Z 9/7/98 AM - weak - msg 895? missed count (BR)
12300 V5. Saturday 8/29, 0300z. Very weak. //14421 also weak. (JL)
12300 V5?. Saturday 8/29, 0200z. Strong carrier, no show. (JL)
12300.5 //14421 TCS 0200Z counting stn freqs with carriers and a few
tones at 0210. (BR)
12300.5 //14421 0200z expected V5, not there - just before 0203z,
LONG tone on both freqs - lasted until just after 0204z (PFR)
12300.5 TCS V5 //14421 (9/15/98) 0300Z msg 097 count 203 (BR)
12300.5 TCS V5 //14421 (9/22/98) msg 196 - weak (BR)
12300.5 V5 //14421 RC/USB 0300 Sat 8/29/98 TCS YL/SS rptg "097" w/1-0
count. At 0310, "Grupo 203" and into 3/2FG. Carrier appeared
at regular 0200 time slot, but no broadcast (JM4)
12560 Russian Man (S6) 1600 (17/Sep 98) AM id 304 null message
format had to attenuate signal (DR)
12603 //14487//16314 LP (E3) 1400 (1/Sep 98) USB id 26493 (DR)
12603 //14487//16314 LP (E3) 1407 (11-08-98) USB id 94454 diff
to sked (DR)
12603 //14487//16475 LP (E3) 1700 (2/Sep 98) USB id 07222 (DR)
12603 //14487//16475 LP (E3) 1700 (26/Aug 98) USB id 51114 (DR)
12603 //14487//16475 LP (E3) 1704 (12-08-98) USB id 10809 (DR)
12603 //14487//16475 LP (E3) 1801 (27/Aug 98) USB id 51114 (DR)
12603 //14487//16475 LP (E3) 1805 (3/Sep 98) USB id 07222 (DR)
12603 //14487//16475 LP (E3) 1806 (13-08-98) USB id 94454 (DR)
12603 E03 Sun 02.08.98 1800 LP 41014 // 7337, 9251 (HFD)
12603 E03 Tue 04.08.98 2100 LP 41014 // 7337, 9251 (HFD)
12603 LP (E3) //13375 1608 (18/Sep 98) USB id 62032 (DR)

12603 LP (E3) //14487//16475 1703 (16/Sep 98) USB id 20096 (DR)
12603 LP //14487//16314 (E3) 1401 (8/Sep 98) USB id 26493 (DR)
12603 LP //14487//16475 (E3) 1703 (9/Sep 98) USB id 07222 (DR)
12603 LP //14487//16475 (E3) 1807 (10/Sep 98) USB id 07222 (DR)
12747 Mossad E10 //14750 1450z (tue 22 sept) USB YL/EE VLB 2 (JD)
13260 Unid (poss M23???) 09:35 UTC non-stop 513 513 513 513 (NNN)
13374 Cut no's stn M8 1805Z 9/7/98 CW in progress (BR)
13375 "Old woman" Sep5 1830 AM with 5 FIG x2 in progress / jammed (BR)
13375 E03 Sun 02.08.98 1730 LP //12603,11545 (HFD)
13441 English Man (E6) 1504 (13/Sep 98) AM (DR)
13441 English Man (E6) 1504 (13/Sep 98) AM id 467 1509 158x2, 263x2,
then 263x2 5FG, 1555 158x2, 263x2, 467x17 (about 1 min), 1556
203x2, 87x2, 87x2 5FG, 1609 203x2, 87x2, 1610 0 0 0 0 0 , 1613
carrier off (DR)
13444 E5 1800 633 Count 113 //11072 (Mon 14 Sept) (GD2)
13444 TCS (E5) 1803 (15-08-98) USB id 035 count 136 (DR)
13444 TCS E5 (9/19/98) 1815Z in progress. Nil hrd on // of 11072 (BR)
13450 //11491 TCS (E5) 1900 (26/Aug 98) USB id 200 count 74 (DR)
13450 //14448 Counting Station (E5) 1701 (7/Sep 98) USB id 136 count
40 (DR)
13450 //14448 TCS (E5) 1700 (23/Aug 98) USB id 954 count 139 (DR)
13450 //14448 TCS (E5) 1700 (27/Aug 98) USB id 476 count 103 (DR)
13450 //14448 TCS (E5) 1700 (31/Aug 98) USB id 476 count 103 (DR)
13450 //14448 TCS (E5) 1700 (4/Sep 98) USB id 954 count 139 (DR)
13450 //14448 TCS (E5) 1701 (24/Aug 98) USB id 476 count 103 (DR)
13450 //14448 TCS (E5) 1701 (3/Sep 98) USB id 476 count 103 (DR)
13450 //14448 TCS (E5) 1702 (30/Aug 98) USB id 954 count 129 (DR)
13450 //14448 TCS (E5) 1802 (2/Sep 98) USB id 107 count 173 (DR)
13450 //14448 TCS (E5) 1802 (26/Aug 98) USB id 107 count 173 (DR)
13450 //14448 TCS (E5) 1902 (24/Aug 98) USB id 107 count 173 (DR)
13450 //14448 TCS (E5) 1902 (31/Aug 98) USB id 107 count 173 (DR)
13450 TCS (E5) //14448 1703 (14/Sep 98) USB id 136 count 40 (DR)
13450 TCS (E5) //14448 1703 (18/Sep 98) USB id 402 count 88 (DR)
13450 TCS (E5) //14448 1704 (17/Sep 98) USB id 136 count 40 (DR)
13450 TCS (E5) //14448 1706 (13/Sep 98) USB id 402 count 88 (DR)
13450 TCS (E5) //14448 1805 (16/Sep 98) USB id 107 count 173 (DR)
13450 TCS (E5) //14448 1905 (14/Sep 98) USB id 107 count 173 (DR)
13450 TCS (E5) 1808 (12-08-98) USB id 523 count 99 (DR)
13450 TCS // 14448 E5 1700Z 9/6/98 AM with msg 954 count 139 (BR)
13450 TCS // 14448 E5 1700Z 9/7/98 AM with msg 136 count 40 (BR)
13450 TCS // 14448 E5 1920Z 9/7/98 AM in progress (BR)
13450 TCS //14448 (E5) 1700 (11/Sep 98) USB id 402 count 88 (DR)
13450 TCS //14448 (E5) 1701 (10/Sep 98) USB id 136 count 40 (DR)
13450 TCS //14448 (E5) 1701 (7/Sep 98) USB id 136 count 40 (DR)
13450 TCS //14448 (E5) 1704 (6/Sep 98) USB id 954 count 139 (DR)
13450 TCS //14448 (E5) 1807 (9/Sep 98) USB id 107 count 173 (DR)
13450 TCS //14448 (E5) 1906 (7/Sep 98) USB id 107 count 173 (DR)
13450 TCS E5 //11491 (9/19/98) 1900Z msg 322 count 79 (BR)

13451 E5 1900 (Monday 7 Sept) 107 Count 173 //14448 (GD2)
13452 JMS FAPSI stn 2238Z 9/11/98 RTTY msg 1/98 (BR)
13452 JMS FAPSI stn 2239Z 9/10/98 RTTY msg 1/241 (BR)
13452 JMS FAPSI stn M42 (9/16/98) 2238Z RTTY with 1/80 msg (BR)
13518 //14739 Count stn E5 Sep5 1300 AM msg 430 count 215. Tfc was
preceded by beeps prior to 1300 (BR)
13518 //10223 TCS (E5) 1208 (5/Sep 98) USB id 408 count 215 (DR)
13518 //14739 TCS (E5) 1300 (29/Aug 98) USB id 430 count 215 (DR)
13518 //14739 TCS (E5) 1301 (5/Sep 98) USB id 430 count 215 (DR)
13518 //14739 TCS/E5 1300 Sat 9/5/98 YL/EE rptg 403 Count 215 (JM4)
13518 Counting Station E5 1200 (Sat 12 sept) USB YL/EE id 408 count
215 // 10223 (JD)
13518 E5 1200 (Wedn 9 sept) 408 Count 215 (GD2)
13518 E5 TCS. Wedn 09/02, 1211z. Barely audible and in progress.
Good signal at 1222z. Beeps return at 1243z and back in progress
with numbers at 1245z. (JL)
13518 TCS (E5) //14739 1304 (19/Sep 98) USB id 430 count 215 (DR)
13518 TCS (E5) 1202 (15-08-98) USB id 343 count 215 (DR)
13518 TCS (E5) 1202 (29/Aug 98) USB id 408 count 215 (DR)
13518 TCS (E5) 1300 (15-08-98) USB id 973 count 215 (DR)
13518 TCS //14739 (E5) 1300 (12/Sep 98) USB id 430 count 215 (DR)
13518 TCS E5. 1200z, Sat 09/19. Preamble: 909 Count: 215 3/2FG.
//10223. (JL)
13518 TCS E5. 1229z, Wed 09/16. Audible at given time, in progress
with numbers. Repeat count (215) at 1230z. "end" 1250z. (JL)
13518 TCS E5. 1300z, Sat 09/19. Preamble: 430 Count: 215 3/2FG. (JL)
13518 TCS, E5. 1216z, Wed. 09/09. In progress 3/2FG. Repeat count at
1230z. "end" 1250z. (JL)
13533 Mossad (E10) 1801 (13-08-98) AM id EZI (DR)
13536 AM 0100 Sat 8/28/98 Atencion/V2 YL/SS 5FG in progress (JM4)
13536 V2 AM 0100 Sat 8/29/98 Atencion YL/SS 5FG in progress. Note
new time/freq. (JM4)
13750 New Star Broadcasting/V13 1300 Sat 9/5/98 YL/CC 4FGx2. (JM4)
13874 E5 1700 (Wedn 9 sept) 781 Count 42 (GD2)
13874 E5 1700 781 Count 42 //15822 (Wedn 15 Sept) (GD2)
13874 TCS (E5) 1700 (16/Sep 98) USB id 781 count 42 (DR)
13874 TCS (E5) 1701 (8/Sep 98) USB id 781 count 42 (DR)
13874 TCS E5 1706z (tue 22 sept) USB YL/EE id 153 count 213 (JD)
13906 Count stn E5 Sep2 1200 msg 503 count 215 (BR)
13906 E5 1200 (Wedn 9 sept) 489 Count 215 (GD2)
13906 E5 1200 489 Count 215 //15732 (Wedn 15 Sept) (GD2)
13906 E5 1200 498 Count 215 (Sun 13 Sept) (GD2)
13906 E5 TCS. Wedn 09/02, 1211z. Barely audible and in progress with
numbers. Good signal at 1222z. "End" at 1250z. (JL)
13906 TCS (E5) 1204 (9/Sep 98) USB id 489 count 215 (DR)
13906 TCS (E5) 1207 (2/Sep 98) USB id 503 count 215 (DR)
13906 TCS (E5) 1208 (16/Sep 98) USB id 489 count 215 (DR)
13906 TCS //15732 E5 1200Z 9/9/98 AM msg 489 count 215 (BR)

13906 TCS 1200Z (26 Aug) E5 - very weak (BR)
13906 TCS E5 //15732 (9/16/98) 1215Z in progress (BR)
13906 TCS E5. 1229z, Wed 09/16. Audible at given time, in progress.
Repeat count (215) at 1230z. "end" 1250z. (JL)
13906 TCS, E5 1227z, Wed 09/09. In progress 3/2FG, "end" 1250z. (JL)
13906 TCS/E5 1200 Wed 9/16/98 YL/EE rptg 489 Count 215 3/2FG. Checked
+/- 5Mhz and could not find a // (JM4)
13960 English Man (E6) 1505 (17/Sep 98) AM In progress 672x2, 195x2,
0 0 0 0 0 at 1536 (DR)
13984 358 unknown 2106 CW 358 (Cont'd)(Very loud)(Saturday)619 (x2)
207 (x2)BT (x2) 06099 ... (T=0)(QSZ) 5 Sep 98 (LBJ)
13988 TCS 2235 UTC USB YL with numbers (5/Sept) (IJ)
13988 TCS 307 2206 USB 307(x3) 1234567890 (wedn) 9 Sep 98 (LBJ)
13988 TCS 392 2200 USB 392 1234567890 (Friday) 11 Sep 98 (LBJ)
13988 TCS 392 unknown USB 2200 392 (x3) 1234567890 (Cont'd) // 11440
(Wed) 16 Sep 98 (LBJ)
13988 TCS 730 USB 2206 730 (x3) 1234567890 (Cont'd) (fri) 18 Sep
98 (LBJ)
13988 TCS E05 2204 (02/Sep) ID 878 End at 2241 (VM)
13988 TCS E5 //11440 (9/18/98) 2220Z in progress (BR)
14000 E15 Tue 25.08.98 1400 Phon. Alphabet (pre Nato) m FYP QRU (HFD)
14000 Phonetic alphabet-pre NATO (E15) 1701 (26/Aug 98) USB In
progress (DR)
14000 Phonetic alphabet-pre-NATO (E15) 1402 (12-08-98) USB id FYP
then many phonetics (DR)
14000 Phonetic alphabet-pre-NATO (E15) 1703 (11-08-98) USB id FYP
then QRU (DR)
14432 TCS E05 1147 (04/Sep) in progress. End at 1217 (VM)
14448 E5 1700 (Fri 11 Sept) 402 Count 88 //13450 (GD2)
14448 E5 1700 (Thurs 10 Sept) 136 Count 40 //13450 (GD2)
14448 E5 1700 136 Count 40 //13450 (Thurs 17 Sept) (GD2)
14448 E5 1700 402 Count 88 //13450 (Sun 13 Sept) (GD2)
14448 E5 1700 Call missed //13450 (Mon 14 Sept) (GD2)
14448 E5 1800 107 Count 163 //13450 (Wedn 15 Sept) (GD2)
14448 TCS (E5) 1700 (14-08-98) USB id 954 count 139 (DR)
14448 TCS (E5) 1701 (28/Aug 98) USB id 954 count 139 (DR)
14448 TCS, E5. 1936z, Mon. 09/07. In progress, barely audible. (JL)
14450 359 unid 2103 CW 359 (Cont'd) (Mon) (OTA 2110Z) 14 Sep 98 (LBJ)
14450 unid 359 2102 CW 359 (Cont'd) (OTA 2110Z)(Mon) 21 Sep 98 (LBJ)
14487 //15682//16084 LP (E3) 1202 (1/Sep 98) USB id 07648 (DR)
14487 //15682//16084 LP (E3) 1202 (2/Sep 98) USB id 06748 (DR)
14487 //15682//16084 LP (E3) 1202 (24/Aug 98) USB id 88509 (DR)
14487 //15682//16084 LP (E3) 1202 (3/Sep 98) USB id 06748 (DR)
14487 //15682//16084 LP (E3) 1202 (31/Aug 98) USB id 88509 (DR)
14487 //15682//16084 LP (E3) 1203 (27/Aug 98) USB id 88509 (DR)
14487 //15682//16084 LP (E3) 1203 (29/Aug 98) USB id 88509 (DR)
14487 //15682//16084 LP (E3) 1204 (13-08-98) USB id 73233 (DR)
14487 //15682//16084 LP (E3) 1204 (30/Aug 98) USB id inaudible (DR)

14487 //15682//16084 LP (E3) 1206 (11-08-98) USB id 73233 (DR)
14487 //15682//16084 LP (E3) 1207 (12-08-98) USB id 73233 (DR)
14487 //15682//16084 LP (E3) 1207 (5/Sep 98) USB id 06748 (DR)
14487 //15682//16084 LP (E3) 1300 (31/Aug 98) USB id inaudible (DR)
14487 //15682//16084 LP (E3) 1300 (5/Sep 98) USB id 42472 (DR)
14487 //15682//16084 LP (E3) 1301 (1/Sep 98) USB id 42472 (DR)
14487 //15682//16084 LP (E3) 1301 (27/Aug 98) USB id 30394 (DR)
14487 //15682//16084 LP (E3) 1301 (29/Aug 98) USB id 30394 (DR)
14487 //15682//16084 LP (E3) 1302 (15-08-98) USB id inaudible (DR)
14487 //15682//16084 LP (E3) 1302 (2/Sep 98) USB id 42472 (DR)
14487 //15682//16084 LP (E3) 1302 (24/Aug 98) USB id 30394 (DR)
14487 //15682//16084 LP (E3) 1302 (26/Aug 98) USB id 30394 (DR)
14487 //15682//16084 LP (E3) 1302 (3/Sep 98) USB id 42472 (DR)
14487 //15682//16084 LP (E3) 1302 (30/Aug 98) USB id 30394 (DR)
14487 //15682//16084 LP (E3) 1303 (28/Aug 98) USB id 30394 (DR)
14487 //15682//16084 LP (E3) 1304 (10-08-98) USB id 44340 (DR)
14487 //15682//16084 LP (E3) 1307 (13-08-98) USB id 15041 (DR)
14487 //15682//16084 LP (E3) 1308 (12-08-98) USB id 15041 (DR)
14487 //15682//16084 LP (E3) 1400 (2/Sep 98) USB id 24189 (DR)
14487 //15682//16084 LP (E3) 1400 (28/Aug 98) USB id 88509 (DR)
14487 //15682//16084 LP (E3) 1400 (3/Sep 98) USB id 39376 (DR)
14487 //15682//16084 LP (E3) 1402 (26/Aug 98) USB id 09807 (DR)
14487 //15682//16084 LP (E3) 1402 (27/Aug 98) USB id 00180 (DR)
14487 //15682//16084 LP (E3) 1408 (12-08-98) USB id 10881 (DR)
14487 //15682//16084 LP (E3) 1408 (13-08-98) USB id 41014 (DR)
14487 //15682//16084 LP (E3) 1500 (2/Sep 98) USB id 26493 (DR)
14487 //15682//16084 LP/E3 1300 Saturday 9/5/98 YL/EE rptg 42472
5FGx2. (JM4)
14487 //15682//16084 USB 1300 Friday 9/4/98 LP/E3 YL/EE rptg
42472 into 5FGx2. (JM4)
14487 //15682//16084 USB 1400 Friday 9/4/98 LP/E3 YL/EE rptg
06748 into 5FGx2. (JM4)
14487 //16084 LP (E3) 1200 (15-08-98) USB id inaudible (DR)
14487 //16084 LP (E3) 1202 (14-08-98) USB id inaudible (DR)
14487 //16084 LP (E3) 1205 (10-08-98) USB id 73233 (DR)
14487 //16084 LP (E3) 1301 (14-08-98) USB id 15041 (DR)
14487 //16084 LP (E3) 1305 (11-08-98) USB id 15041 (DR)
14487 //16084 LP (E3) 1400 (14-08-98) USB id 73233 (DR)
14487 //16084 LP 1300 Thursday 9/3/98 YL/EE rptg 42472 then into
5FGx2. (JM4)
14487 E03 Mon 10.08.98 1300 LP 44340 (HFD)
14487 E3 //15682 USB 1407z Sun 20/09/98 2009? tune easily audible,
voice faint - never could catch last digit (PFR)
14487 LP 1324utc USB missed call up 5ngs 57706 28780 etc SINPO
24320. (CT)
14487 LP (E3) //15682//16084 1202 (19/Sep 98) USB id 85602 (DR)
14487 LP (E3) //15682//16084 1204 (18/Sep 98) USB id 85602 (DR)
14487 LP (E3) //15682//16084 1206 (16/Sep 98) USB id 85602 (DR)

14487 LP (E3) //15682//16084 1206 (17/Sep 98) USB id 85602 (DR)
14487 LP (E3) //15682//16084 1207 (14/Sep 98) USB id 06748 (DR)
14487 LP (E3) //15682//16084 1300 Monday 9/14/98 extremely weak
- only tune audible. (JM4)
14487 LP (E3) //15682//16084 1303 (13/Sep 98) USB id 42472 (DR)
14487 LP (E3) //15682//16084 1303 (17/Sep 98) USB id 93741 (DR)
14487 LP (E3) //15682//16084 1303 (18/Sep 98) USB id 93741 (DR)
14487 LP (E3) //15682//16084 1305 (14/Sep 98) USB id 42472 (DR)
14487 LP (E3) //15682//16084 1306 (19/Sep 98) USB id 93741 (DR)
14487 LP (E3) //15682//16084 1400 (17/Sep 98) USB id 59882 (DR)
14487 LP (E3) //15682//16084 1405 (13/Sep 98) USB id 07222 (DR)
14487 LP //15682//16084 (E3) 1201 (11/Sep 98) USB id 06748 (DR)
14487 LP //15682//16084 (E3) 1201 (8/Sep 98) USB id 06748 (DR)
14487 LP //15682//16084 (E3) 1202 (12/Sep 98) USB id 06748 (DR)
14487 LP //15682//16084 (E3) 1202 (9/Sep 98) USB id 06748 (DR)
14487 LP //15682//16084 (E3) 1206 (7/Sep 98) USB id 06748 (DR)
14487 LP //15682//16084 (E3) 1301 (12/Sep 98) USB id 42472 (DR)
14487 LP //15682//16084 (E3) 1304 (10/Sep 98) USB id 42472 (DR)
14487 LP //15682//16084 (E3) 1305 (7/Sep 98) USB id 42472 (DR)
14487 LP //15682//16084 (E3) 1305 (9/Sep 98) USB id 42472 (DR)
14487 LP //15682//16084 (E3) 1311 (11/Sep 98) USB In progress (DR)
14487 LP //15682//16084 (E3) 1400 (11/Sep 98) USB id 06748 (DR)
14487 LP //15682//16084 (E3) 1401 (10/Sep 98) USB id 39376 (DR)
14487 LP //15682//16084 (E3) 1407 (9/Sep 98) USB id 54817 15682
faulty (DR)
14487 LP //15682//16084 USB 1300 Sunday 8/30/98 E3 YL/EE rptg
"30394" 5FGx2. JM4
14487 LP //16084 (E3) 1301 (8/Sep 98) USB id 42472 (DR)
14487 LP 1400utc USB 07222 5ngs SINPO 12222 jammed + paket. (CT)
14487 LP 1500utc USB tune only.(CT)
14487 LP E3 //12603//16314 1442z (tue 22 sept) USB YL/EE 5 fg (JD)
14487 LP E3 //15682//16084 1400z (wed 22 sept) USB YL/EE 62032 (JD)
14487 LP E3 1202 (Sat 12 sept) USB YL/EE id 06748 //16084//15682 (JD)
14487 LP/E3 //15682//16084 1200 Wednesday 9/16/98 extremely weak
on all three. (JM4)
14570 RUSSIA SVR "English Man" (aka Boris Badanov) 1236 seemed 5FG,
fair sig but very low audio. Far east tx? (23 Aug) (ANUS)
14731 8BY CW stn sending 8BY 097/629/532 repeatedly between 0140
and 0200Z.(BR)
14731 BPA FAPSI stn M42 (9/19/98) 1455Z RTTY testing - off at 1457Z
no xmsn followed at sked time of 1515Z (BR)
14739 E5 1300 430 Count 215 //13518 (Sat 19 Sept) (GD2)
14739 TCS (E5) 1303 (4/Sep 98) USB id 430 (DR)
14739 TCS E5. 1306z, Sat 09/19. Barely audible at stated time.
Preamble: 430 Count: 215 3/2FG. //13518. (JL)
14750 Mossad E10 1349z (wed 23 sept) USB YL/EE VLB 2 (JD)
14750 Mossad VLB2 0445 UTC USB with YL repeating VLB2 (10/Sept) (IJ)
14843 5 LTR grps Sep3 2230 CW msg started NR 48 S 04 01738707 1998

BT faded out 3 1/2 hours later.

14843 JMS FAPSI stn 2230Z 9/10/98 RTTY msg 1/241 (BR)

14843 JMS FAPSI stn 2230Z 9/11/98 RTTY msg 1/98 (BR)

14852 English Man (E6) 1204 (14/Sep 98) AM id 794? 865x2, 30x2,
0 0 0 0 0 at 1210 (DR)

14878 M51 2112 (CW In 5 ltr tfc) BT NR 64 S 0723 .11 .34 1998 BT
(Still sending tfc at 2205Z) BR NR 72 (Monday)

14931 8BY Sep3 0140 CW repeating 097/629/532 til 0200 (BR)

14934 295 unid 2100 CW 295(x3) TTT (Cont'd) (Monday) 14 Sep 98 (LBJ)

14934 unid 295 2100 CW 295 (x3) TTT (Cont'd) (Monday) 21 Sep 98 (LBJ)

15478 // 16050 TCS 0100Z (26 Aug) V5 - very weak (BR)

15478 TCS //16050 0100Z (28 Aug) V5 - very weak (BR)

15478 TCS //16050 V5 0100Z 9/11/98 msg 078 count 224 (BR)

15478 TCS V5 //16050 (9/16/98) 0100Z msg 078 count 224 (BR)

15478 TCS V5 //16050 (9/18/98) 0100Z msg 078 count 224 (BR)

15478 V5. 0107z, Wed. 09/09. In progress with good signal. 0124z
interference from the jamming station, Dr. Jean Scott (DJS).
At 0129z completely lost. //16050, same problem with inter-
ference. (JL)

15478 V5. Wednesday 09/02, 0123z. In progress, drowned out at 0138z
by broadcast?, sounded like rock and roll, heard it all the way
up to 15615kHz, but only a few Hz below the freq. //16050, same
interference. (JL)

15624 CR (E4) 2200 (24/Aug 98) USB id inaudible (DR)

15624 CR (E4) 2200 (25/Aug 98) USB id 13553 (DR)

15624 CR (E4) 2203 (13-08-98) USB id 01399 short preamble (DR)

15624 CR (E4) 2203 (3/Sep 98) USB id 43707 very weak (DR)

15624 CR (E4) 2203 (6/Sep 98) USB id 04351 (DR)

15624 CR (E4) 2204 (12-08-98) USB id 55766 (DR)

15624 CR (E4) 2204 (14/Sep 98) USB id inaudible (DR)

15624 CR (E4) 2204 (2/Sep 98) USB id 18376 (DR)

15624 CR (E4) 2204 (7/Sep 98) USB id 30373? (DR)

15624 CR (E4) 2205 (10-08-98) USB id 70365 (DR)

15624 CR (E4) 2205 (15/Sep 98) USB id 22376 (DR)

15624 CR (E4) 2205 (16/Sep 98) USB id inaudible too weak (DR)

15624 CR (E4) 2205 (8/Sep 98) USB id inaudible (DR)

15624 CR (E4) 2206 (9/Sep 98) USB id inaudible (DR)

15624 CR (E4) 2207 (10/Sep 98) USB id missed (DR)

15624 CR (E4) 2237 (11-08-98) USB In progress (DR)

15624 LP 70172 unknown 2203 USB (Music) 70172 (Repeated)(Monday)
7 Sep 98 (LBJ)

15624 Unid 2207 USB (In 5fig code - female/EE - QSZ (Tuesday) 8 Sep
98 (LBJ)

15822 E5 0900 439 Count 121 //14448 (Sun 13 Sept) (GD2)

15833 TCS (E5) 1401 (17/Sep 98) USB id 612 count 43 (DR)

15983 Mossad (E10) 1108 (13-08-98) AM In progress FAST DELIVERY (DR)

15983 Mossad (E10) 1129 (13-08-98) AM id EZI (DR)

16086 E5 1100 (Thurs 10 Sept) 198 Count 215 (GD2)

16086 E5 1100 711 Count 215 // ?? (Thurs 17 Sept) (GD2)
16212 FAPSI (M42) 0915 26-08-98 RTTY 75/500 w/5LGs link 00085 (ML)
16340 English Man (E6) 1105 (14/Sep 98) AM In progress 865x2, 30x2,
0 0 0 0 0 at 1110 (DR)
17410 E10 Wed 12.08.98 1300 Phon. Alphabet (NATO) EZI2 //19715 (HFD)
17410 Mossad E10 1100 (Sat 12 sept) USB YL/EE EZI // 15980 (JD)
17421 FAPSI Russia mazielka 1705 6-tone callup, continued until 1715.
1716 RTTY 75/500 centered on 17421 began, too weak to attempt
copy. (5 SEP) (ANUS)
17499 CR (E4) //22108 0000 Monday 9/14/98 extremely weak. (JM4)
17499 CR (E4) 0003 (11-08-98) USB Weak id inaudible (DR)
17499 CR (E4) 0003 (14-08-98) USB id ?????4 short preamble (DR)
17499 CR (E4) 2300 (10/Sep 98) USB id inaudible (DR)
17499 CR (E4) 2300 (12-08-98) USB id 01399 (DR)
17499 CR (E4) 2303 (13-08-98) USB id 807?? short preamble (DR)
17499 CR (E4) 2305 (09-08-98) USB id 70365 (DR)
17499 CR //22108 E4 0000 Monday 9/7/98 YL/EE rptg 76458 5FGx2. Note
new freq arrangement. (JM4)
17499 E4 CR. 2304z, Wed. 08/26. Tune just barely audible. (JL)
18000 E15 Tue 25.08.98 1100 Phon. Alphabet (pre Nato) m BEC QRU (HFD)
18000 Phonetic alphabet-pre NATO (E15) 1105 (24/Aug 98) USB BEC
QRU (DR)
18000 Phonetic alphabet-pre-NATO (E15) 1100 (11-08-98) USB id BEC
weak (DR)
18000 Phonetic alphabet-pre-NATO (E15) 1100 (12-08-98) USB id BEC
then QRU (DR)
18415 8BY French Intel stn 0750 UTC CW with VVV DE 8BY (11/Sept) (IJ)
19884 //22108 CR (E4) 1300 (1/Sep 98) USB id 04355 (DR)
19884 //22108 CR (E4) 1300 (11-08-98) USB id 16511 (DR)
19884 //22108 CR (E4) 1300 (14-08-98) USB id 55766 (DR)
19884 //22108 CR (E4) 1300 (2/Sep 98) USB id 30173 (DR)
19884 //22108 CR (E4) 1300 (4/Sep 98) USB id 18376 (DR)
19884 //22108 CR (E4) 1301 (24/Aug 98) USB id 31310 (DR)
19884 //22108 CR (E4) 1303 (12-08-98) USB id 70365 (DR)
19884 //22108 CR (E4) 1303 (13-08-98) USB id 56263 (DR)
19884 //22108 CR 1300 Thurs 9/3/98 YL/EE rptg 76458 then into 5FGx2.
(JM4)
19884 CR (E4) //22108 1303 (17/Sep 98) USB id 93741 (DR)
19884 CR (E4) //22108 1303 (18/Sep 98) USB id 25453 (DR)
19884 CR (E4) //22108 1305 (14/Sep 98) USB id 74997 (DR)
19884 CR (E4) //22108 1320 (16/Sep 98) USB In progress (DR)
19884 CR (E4) 1304 (10-08-98) USB id 72451 (DR)
19884 CR //22108 (E4) 1300 (8/Sep 98) USB id 04355 (DR)
19884 CR //22108 (E4) 1303 (10/Sep 98) USB id 76458 (DR)
19884 CR //22108 (E4) 1306 (11/Sep 98) USB id 18376 (DR)
19884 CR //22108 (E4) 1306 (7/Sep 98) USB id 74997 (DR)
19884 LP 74997 unknown 1305 USB (Music) 74997(Repeated) (Monday)
(Female/EE)(Tones 1307Z) 08046 02273 ...(QSZ)7 Sep 98 (LBJ)

19923 FAPSI PSN at 2245Z (17 Sept), 75 bd 500 hz. Very strong.
Presumed started at 2240Z or earlier. Callsign derived from
link id = 00126. This guy has rarely been logged in past few
years. But, he's one of the few that have been on the Americas
division of the B'hood since the old high speed CW days of
this network (late 1970's). We've never found a second freq
for him. Possibly the first freq is on at 2230Z? (DB)

19923 FAPSI station 2255 UTC RTTY 75 Bd/500 with 5Lgs (15/Sept) (IJ)

19923 PSN FAPSI stn M42 (8/22/98) 2248Z RTTY msg 1/69 (BR)

19923 PSN FAPSI stn M42 (9/18/98) 2250Z RTTY with 2/264 msgs (BR)

19923 PSN FAPSI stn M42 (9/21/98) 2248Z RTTY msg 1/69 (BR)

19984 CR //22108 (E4) 1304 (9/Sep 98) USB id 30173 (DR)

20474 //23461 CR (E4) 1002 (26/Aug 98) USB id 31310 (DR)

20474 //23461 CR (E4) 1004 (14-08-98) USB id 16511 (DR)

20474 //23461 CR (E4) 1005 (13-08-98) USB id 72451 (DR)

20474 //23461 CR (E4) 1038 (24/Aug 98) USB In progress (DR)

20474 //23461 CR (E4) 1100 (14-08-98) USB id 70365 (DR)

20474 //23461 CR (E4) 1104 (10-08-98) USB id 80715 (DR)

20474 //23461 CR (E4) 1104 (13-08-98) USB id 16511 (DR)

20474 //23461 CR (E4) 1104 (24/Aug 98) USB id 47984 (DR)

20474 //23461 CR (E4) 1105 (11-08-98) USB id 36434 (DR)

20474 //23461 CR (E4) 1107 (12-08-98) USB In progress (DR)

20474 //23461 CR (E4) 1200 (11-08-98) USB id 72451 (DR)

20474 //23461 CR (E4) 1200 (14-08-98) USB id 56263 (DR)

20474 //23461 CR (E4) 1200 (24/Aug 98) USB id 41198 (DR)

20474 //23461 CR (E4) 1201 (1/Sep 98) USB id 74997 (DR)

20474 //23461 CR (E4) 1202 (12-08-98) USB id 16511 (DR)

20474 //23461 CR (E4) 1204 (10-08-98) USB id 36434 (DR)

20474 //23461 CR (E4) 1204 (13-08-98) USB id 70365 (DR)

20474 CR (E4) //23461 1000 (16/Sep 98) USB id 54860 (DR)

20474 CR (E4) //23461 1102 (14/Sep 98) USB id 80636 (DR)

20474 CR (E4) //23461 1103 (16/Sep 98) USB id 62736 (DR)

20474 CR (E4) //23461 1104 (18/Sep 98) USB id 84377 (DR)

20474 CR (E4) //23461 1204 (18/Sep 98) USB id 22367 (DR)

20474 CR (E4) //23461 1205 (16/Sep 98) USB id 83745 (DR)

20474 CR (E4) //23461 1205 (17/Sep 98) USB id 84377 (DR)

20474 CR (E4) //23461 1206 (14/Sep 98) USB id 36974 (DR)

20474 CR (E4) 1101 (4/Sep 98) USB id 76458 (DR)

20474 CR (E4) 1200 (2/Sep 98) USB id 04355 (DR)

20474 CR //23461 (E4) 1100 (10/Sep 98) USB id 04355 (DR)

20474 CR //23461 (E4) 1100 (8/Sep 98) USB id 36974 (DR)

20474 CR //23461 (E4) 1100 (9/Sep 98) USB id 74997 (DR)

20474 CR //23461 (E4) 1105 (11/Sep 98) USB id 30173 (DR)

20474 CR //23461 (E4) 1200 (11/Sep 98) USB id 76458 (DR)

20474 CR //23461 (E4) 1200 (8/Sep 98) USB id 74997 (DR)

20474 CR //23461 (E4) 1201 (9/Sep 98) USB id 04355 (DR)

20474 CR //23461 (E4) 1202 (10/Sep 98) USB id 30173 (DR)

20474 CR //23461 (E4) 1207 (7/Sep 98) USB id 36974 (DR)

22108 CR E4. 0007z, Tues 09/15. Tune in progress and barely audible as was YL. Weak interference from WL0. (JL)
22865 PSN FAPSI stn M42 (8/22/98) 2240Z RTTY msg 1/69. The first freq for PSN (FAPSI RTTY) is 22865 at 2240Z (followed by repeat on 19923 kHz). Interesting that on 22865, the sig is 20 over S-9 and clean where so far the 19923 sig has been lousy copy - sounds like multipath distortion or something, although it is fairly strong. (BR)

★ Abbreviations ★

LP = Lincolnshire Poacher
CR = Cherry Ripe
TCS = the Counting Station aka 'Cynthia'

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EDD = Erik Dyce, Denver, Co, USA
GD2 = Guy Denman, UK
HFD = Hans-Friedrich Dumrese, Germany
IJ = Ian Julian, Hamilton, New Zealand
JD = Jonathan Drakes, east coast UK
NNN = NN, the Netherlands
JL = Jason Lillie, Oklahoma, USA
JM4 = John Maky, Parks, Arkansas, USA
KH = Karel Honzik, Czech Republic
LG = Larsen, Germany
LBJ = Jean-Paul LeBlanc, Ontario, Canada
ML = Murray Lehman, Australia
PFR = Paul F Reah, Phoenix, AZ, USA
PV = Peter Vee
TA = Tony, South Africa
VM = Valeriano Martin, Spain

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